

Table S3. Bioactive peptides present in bovine colostrum.

Parent proteins	Protein description	Peptides	Function
P02662	CSN1S1	EDVPSERY	Osteoanabolic
		VAPFPEVFGK	ACE-inhibitory
			Antioxidant
		HPIKHQGLPQEVLNEN	Antioxidant
		VPQLEIVPNS(+79.97)AEER , VPQLEIVPNSAEER	Promote calcium uptake
		IGSENSEKTTMP, IGSENSEKTTM(+15.99)P, IGS(+79.97)ENSEKTTM(+15.99)P	ACE-inhibitory
		GLPQEVLENENLL	Antioxidant
		GLPQEVLENENLLR	Antioxidant
		FVAPFPEVFGKEK	ACE-inhibitory
		YKVPQLEIVPNS(+79.97)AEER, YKVPQLEIVPNSAEER	Promote calcium uptake
		YVPLGTQYTDAPSFSDIPN PIGSENSEKTTM(+15.99)P, YVPLGTQYTDAPSFSDIPN PIGSENSEKTTMP, YVPLGTQYTDAPSF(+79.97)DIPNPIGSENSEKTTM(+15.99)P, YVPLGTQYTDAPSFSDIPN PIGS(+79.97)ENSEKTTMP	ACE-inhibitory
		EDVPSER	Osteoanabolic
		VLNENLLRF	Antimicrobial
		HQGLPQEVLENENLL	Antioxidant
		LNENLLRF	Antimicrobial
		VPQLEIVPNS(+79.97)AEER LHS, VPQLEIVPNSAEERLHS	Promote calcium uptake
		NENLLRF	ACE-inhibitory
		HQGLPQEVLNEN	Antioxidant
		YKVPQLEIVPNS(+79.97)AEERLHSM, YKVPQLEIVPNSAEERLHSM(+15.99), YKVPQLEIVPNS(+79.97)AEERLHSM(+15.99), YKVPQLEIVPNSAEERLHS	Promote calcium uptake

	M	
	APFPEVFGKE	ACE-inhibitory Antioxidant
	KHPIKHQGLPQEVLENL	Antimicrobial
	L	Immunomodulatory
	VAPFPEVFGKE	ACE-inhibitory Antioxidant
	RPKHPIKHQGLPQEVLE	Antimicrobial
	N	Immunomodulatory
	PFPEVFGKEKV	Antioxidant
	IGSENSEKTT	ACE-inhibitory
	EQLRLKKY	Antimicrobial
	TDAPSFSDIPNPIGSENSEK TTM(+15.99)P, TDAPSFSDIPNPIGSENSEK TTMP	ACE-inhibitory
	IKHQGLPQEVLENLL	Antioxidant
	APFPEVFGKEK	Antioxidant
	YVPLGTQYTDAPSFSDIPN PIGSENSEKTTM(+15.99), YVPLGTQYTDAPSFSDIPN PIGSENSEKTTM	ACE-inhibitory
	YVPLGTQYTDAPSFSDIPN PIGSENSEKTTMPL, YVPLGTQYTDAPSFSDIPN PIGSENSEKTTM(+15.99)PL	ACE-inhibitory
	QYTDAPSFSDIPNPIGSENS EKTTM(+15.99)P, QYTDAPSFSDIPNPIGSENS EKTTMP	ACE-inhibitory
	LEQLRL	Antimicrobial
	HPIKHQGLPQEV	Antimicrobial
	FFVAPFPEVFGK	ACE-inhibitory
	NPIGSENSEKTTM(+15.99) P, NPIGSENSEKTTMP	ACE-inhibitory
	GTQYTDAPSFSDIPNPIGSE NSEKTTMP, GTQYTDAPSFSDIPNPIGSE NSEKTTM(+15.99)P	ACE-inhibitory
	TQYTDAPSFSDIPNPIGSEN SEKTTM(+15.99)P, TQYTDAPSFSDIPNPIGSEN SEKTTMP	ACE-inhibitory

		RPKHPIKHQGLPQEVLENE	Antimicrobial
		NLLR	Immunomodulatory
		PIGSENSEKTTM(+15.99)PLW, PIGSENSEKTTMPLW	ACE-inhibitory
		VPQLEIVPNS(+79.97)AEERLH, VPQLEIVPNSAEERLH	Promote calcium uptake
		YKVPQLEIVPNS(+79.97)AEERLH, YKVPQLEIVPNSAEERLH	Promote calcium uptake
		HPIKHQGLPQEVLENE	Antioxidant
		VAPFPEVFGKEKVNELS	induce macedocin biosynthesis
		FPEVFGKEK	Antioxidant
		RPKHPIKHQGLPQEVLENE	Antimicrobial
		NL	Immunomodulatory
		KEDVPSE	Osteoanabolic
		QYTDAPSFSDIPNPIGSENSEKTTMPLW, QYTDAPSFSDIPNPIGSENSEKTTM(+15.99)PLW, QYTDAPSFSDIPNPIGS(+79.97)ENSEKTTM(+15.99)PLW, QYTDAPSFSDIPNPIGSENSEKTTMPLW(+79.97)EKTMMPLW	ACE-inhibitory
		FPEVFGKEKV	Antioxidant
		FVAPFPEVFGKEKVNE	induce macedocin biosynthesis
		YYVPLGTQYTDAPSFSDIPNPIGSENSEKTTM(+15.99)P, YYVPLGTQYTDAPSFSDIPNPIGSENSEKTTMP	ACE-inhibitory
		LKKYKVPQLEIVPNS(+79.97)AEER, LKKYKVPQLEIVPNSAEER	Promote calcium uptake
		YKVPQLEIVPNS(+79.97)AEERLHS, YKVPQLEIVPNSAEERLHS	Promote calcium uptake
		HPIKHQGLPQEVLENE	Antioxidant
		PFPEVFGK	ACE-inhibitory
			Antioxidant
LEQLRLK	Antimicrobial		
PIGSENSEKTTMP,	ACE-inhibitory		

	PIGSENSEKTTM(+15.99)P	
	IGSENSEKTTMPL, IGSENSEKTTM(+15.99)PL, IGS(+79.97)ENSEKTTM(+15.99)PL	ACE-inhibitory
	KHPIKHQGLPQEVLENL LR	Antimicrobial
		Immunomodulatory
	FVAPFPEVFGK	ACE-inhibitory
	LEQLRLKKY	Antimicrobial
	APFPEVFGK	ACE-inhibitory
		Antioxidant
	RPKHPIK	Antimicrobial
		ACE-inhibitory
	HPIKHQGLPQE	Antimicrobial
	PIGSENSEKTT	ACE-inhibitory
	FFVAPFPEVFGKEK	ACE-inhibitory
	FPEVFGK	ACE-inhibitory
	KVPQLEIVPNS(+79.97)AE ER, KVPQLEIVPNSAEER	Promote calcium uptake
	YLEQLLR	Antimicrobial
	HQGLPQEVLENLLR	Antioxidant
	KDIGSESTEDQAM(+15.99) EDI	Promote calcium uptake
	DIGSESTEDQAM(+15.99)E DIK, DIGS(+79.97)ES(+79.97)TE DQAMEDIK, DIGS(+79.97)ES(+79.97)TE DQAM(+15.99)EDIK, DIGSESTEDQAMEDIK, DIGSES(+79.97)TEDQAM(+15.99)EDIK, DIGSES(+79.97)TEDQAMEDIK	Promote calcium uptake
	NPIGSENSEKTT	ACE-inhibitory
	HQGLPQEVLENL	Antioxidant
	KVPQLEIVPNS(+79.97)AE ERLHS, KVPQLEIVPNSAEERLHS	Promote calcium uptake
	SENSEKTTM(+15.99)PLW, SENSEKTTMPLW	ACE-inhibitory
	KYKVPQLEIVPNS(+79.97) AEER,	Promote calcium uptake

	KYKVPQLEIVPNSAEER	
	VAPFPEVFGKEKVNEL	induce macedocin biosynthesis
	EVLNENLLRF	Antimicrobial
	FVAPFPEVFGKE	ACE-inhibitory
	VAPFPEVFGKEK	ACE-inhibitory
	RPKHPI	Antimicrobial
		ACE-inhibitory
	YKVPQ	ACE-inhibitory
	DIPNPIGSENSEKT	Antimicrobial
	RPKHPIKH	Antimicrobial
		ACE-inhibitory
	TDAPSFSDIPNPIGSENSEK TTMPLW, TDAPSFSDIPNPIGSENSEK TTM(+15.99)PLW, TDAPSFSDIPNPIGS(+79.97)ENSEKTTM(+15.99)PLW	ACE-inhibitory
	HQGLPQEV	Antimicrobial
	VAPFPEVF	ACE-inhibitory
	FPEVFGKE	ACE-inhibitory
		Antioxidant
	FSDIPNPIGSENSEKT	Antimicrobial
		Antioxidant
	KVPQLEIVPNS(+79.97)AE ERLH, KVPQLEIVPNSAEERLH	Promote calcium uptake
	IKHQGLPQEVLNEN	Antioxidant
	YYVPLGTQYTDAPSFSDIP NPIGSENSEKTTMPL, YYVPLGTQYTDAPSFSDIP NPIGSENSEKTTM(+15.99) PL	ACE-inhibitory
	SDIPNPIGSENSEKT	Antimicrobial
	GSENSEKTTMP, GSENSEKTTM(+15.99)P	ACE-inhibitory
	YTDAPSFSDIPNPIGSENSE KTTM(+15.99)P, YTDAPSFSDIPNPIGSENSE KTTMP	ACE-inhibitory
	NPIGSENSEKTTMPL, NPIGSENSEKTTM(+15.99) PL	ACE-inhibitory

		DVPSERY	ACE-inhibitory
			Osteoanabolic
		VAPFPEVFG	ACE-inhibitory
		QYTDAPSFSDIPNPIGSENS EKTTM(+15.99)PL, QYTDAPSFSDIPNPIGSENS EKTTMPL	ACE-inhibitory
		TDAPSFSDIPNPIGSENSEK T	Antioxidant
		YLEQLLRK	Antimicrobial
		FFVAPFPEVFGKEKV	ACE-inhibitory
		IGSENSEKTTM, IGSENSEKTTM(+15.99)	ACE-inhibitory
		RPKHPIKHQGLPQEVLNE NLL	Antimicrobial Immunomodulatory
		SDIPNPIGSENSEK	Antimicrobial
		IKHQGLPQEV	Antimicrobial
		TDAPSFSDIPNPIGSENSEK TTM(+15.99)PL, TDAPSFSDIPNPIGSENSEK TTMPL	ACE-inhibitory
		LSKDIGSESTEDQAM(+15. 99)ED, LSKDIGS(+79.97)ES(+79.97)TEDQAM(+15.99)ED, LSKDIGSESTEDQAMED, LSKDIGSEST(+79.97)EDQ AMED, LS(+79.97)KDIGSESTEDQ AM(+15.99)ED	Promote calcium uptake
		KYKVPQ	ACE-inhibitory
		TDAPSFSDIPNPIGSENSEK	Antioxidant
		NENLLR	ACE-inhibitory
		YKVPQLEIVPNSAEE, YKVPQLEIVPNS(+79.97)A EE	Promote calcium uptake
		VPSERYLG	ACE-inhibitory
		KYKVPQLEIVPNS(+79.97) AEERLH, KYKVPQLEIVPNSAEERLH	Promote calcium uptake
		KHQGLPQEV	Antimicrobial
		IKHQGLPQE	Antimicrobial
		SDIPNPIGSENSEKTTM(+1	Antimicrobial

	5.99), SDIPNPIGSENSEKTTM	
	SKDIGSESTEDQAM(+15.99) ED, SKDIGSESTEDQAMED, SKDIGS(+79.97)ES(+79.97) TEDQAMED, SKDIGSES(+79.97)TEDQA M(+15.99)ED, SKDIGS(+79.97)ES(+79.97) TEDQAM(+15.99)ED, SKDIGS(+79.97)ESTEDQA MED	Promote calcium uptake
	VPSERYL	ACE-inhibitory
	LGYLEQLLR	Anxiolytic Antimicrobial
	DIGSESTEDQAM(+15.99)E D, DIGSESTEDQAMED, DIGS(+79.97)ESTEDQAM(+ 15.99)ED, DIGSES(+79.97)TEDQAME D	Promote calcium uptake
	GTQYTDAPSFSDIPNPIGSE NSEKTTM(+15.99), GTQYTDAPSFSDIPNPIGSE NSEKTTM	ACE-inhibitory
	KHQGLPQEVLENLL	Antioxidant
	KKYKVPQLEIVPNSAEER, KKYKVPQLEIVPNS(+79.97) AEER	Promote calcium uptake
	YVPLGTQYTDAPSFSDIPN PIGSENSEKT	ACE-inhibitory
	RPKHPIKHQ	ACE-inhibitory
	YVPLGTQYTDAPSFSDIPN PIGSENSEKTT	ACE-inhibitory
	YLEQLLRL	Antimicrobial
	KVPQLEIVPNSAEE, KVPQLEIVPNS(+79.97)AE E	Promote calcium uptake
	VAPFPEVFGKEKVNELSK, VAPFPEVFGKEKVNELS(+ 79.97)K	induce macedocin biosynthesis
	FVAPFPEVFG	ACE-inhibitory
	FVAPFPEVFGKEKVNELS	induce macedocin

	K	biosynthesis
	YLEQLLRKKY	Antimicrobial
	DIPNPIGSENSEKTT	Antimicrobial
	KYKVPQLEIVPNS(+79.97) AEERLHS, KYKVPQLEIVPNSAEERLH S	Promote calcium uptake
	IKHQGLPQEVLENENLLR	Antioxidant
	SENSEKTTM(+15.99)P	ACE-inhibitory
	LNENLLR	Antimicrobial
	HPIKHQGLPQEVLENENLL R	Antimicrobial Immunomodulatory
	DAPSFSDIPNPIGSENSEK	Antioxidant
	YVPLGTQYTDAPSFSDIPN PIGSENSEKTTM(+15.99)PL W, YVPLGTQYTDAPSFSDIPN PIGSENSEKTTMPLW	ACE-inhibitory
	GYLEQLLR	Anxiolytic Antimicrobial
	SDIPNPIGSENSEKTT	Antimicrobial
	YKVPQLEIVPNS(+79.97)A, YKVPQLEIVPNSA	Promote calcium uptake
	KQM(+15.99)EAESISSEEI VPNSVEQ, KQMEAESISS(+79.97)EEI VPNSVEQ, KQMEAESISSEEIVPNSV EQ, KQM(+15.99)EAESISS(+79 .97)EEIVPNSVEQ, KQM(+15.99)EAESIS(+79.9 7)S(+79.97)SEEIVPNSVEQ, KQMEAESISS(+79.97)S(+79 .97)EEIVPNSVEQ	Immunomodulatory
	VPQLEIVPNS(+79.97)AEER L, VPQLEIVPNSAEERL	Promote calcium uptake
	VPQLEIVPNSAEE, VPQLEIVPNS(+79.97)AEE	Promote calcium uptake
	KDIGSESTEDQAM(+15.99) ED, KDIGSESTEDQAMED, KDIGS(+79.97)ES(+79.97)T EDQAM(+15.99)ED, KDIGSES(+79.97)TEDQAM	Promote calcium uptake

	(+15.99)ED, KDIGSES(+79.97)TEDQAM ED, KDIGS(+79.97)ES(+79.97)T EDQAMED	
	IGSENSEKTTM(+15.99)PL W, IGSENSEKTTMPLW	ACE-inhibitory
	DVPSERYL	ACE-inhibitory
	FVAPFPEVFGKEKVNELS	induce macedocin biosynthesis
	IGSESTEDQAMEDIK, IGSESTEDQAM(+15.99)EDI K	Promote calcium uptake
	TDAPSFSDIPNPIGSENSE	Antioxidant
	PIGSENSEKTTM(+15.99)PL , PIGSENSEKTTMPL	ACE-inhibitory
	PIKHQGLPQEVLNENLL	Antioxidant
	NPIGSENSEKTTM(+15.99)	ACE-inhibitory
	PFPEVFGKEK	Antioxidant ACE-inhibitory
	KVPQLEIVPNSAE	Promote calcium uptake
	IKHQGLPQEVLNENL	Antioxidant
	QLLRLKKY	Antimicrobial
	TQYTDAPSFSDIPNPIGSEN SEKTTM(+15.99)PL, TQYTDAPSFSDIPNPIGSEN SEKTTMPL	ACE-inhibitory
	GYLEQLLRLK	Anxiolytic Antimicrobial
	DAPSFSDIPNPIGSENSEKT TMPLW, DAPSFSDIPNPIGSENSEKT TM(+15.99)PLW	ACE-inhibitory
	QGLPQEVLNENLL	Antioxidant
	RLKKYKVPQ	Antimicrobial
	IPNPIGSENSEKTT	Antimicrobial
	KHQGLPQEVLNENL	Antioxidant
	GLPQEVLNENLLRF	Antioxidant
	ENLLRFF	ACE-inhibitory
	EVLNENLLR	Antimicrobial
	KHQGLPQEVLNENLLR	Antioxidant
	KHQGLPQEVLNEN	Antioxidant

		KHQGLPQE	Antimicrobial
		VLNENLLR	Antimicrobial
		FFVAPFPEVFGKE	ACE-inhibitory
		IPNPIGSENSEKT	Antimicrobial
		IGSESTEDQAMED, IGSESTEDQAM(+15.99)ED, IGSES(+79.97)TEDQAM(+1 5.99)ED, IGS(+79.97)ESTEDQAMED	Promote calcium uptake
		LGTQYTDAPSFSDIPNPIGS ENSEKTTMP, LGTQYTDAPSFSDIPNPIGS ENSEKTTM(+15.99)P	ACE-inhibitory
		APSFSDIPNPIGSENSEKTT M(+15.99)PLW, APSFSDIPNPIGSENSEKTT MPLW	ACE-inhibitory
		ARPKHPIKH	ACE-inhibitory
		SKDIGSESTEDQAM(+15.99)EDIK, SKDIGSESTEDQAMEDIK	Promote calcium uptake
		IPNPIGSENSEKTTM(+15.9 9), IPNPIGSENSEKTTM	Antimicrobial
		RPKHPIKHQGL	ACE-inhibitory
		GSENSEKTTMPLW, GSENSEKTTM(+15.99)PLW	ACE-inhibitory
		TDAPSFSDIPNPIGSEN	Antioxidant
		DAPSFSDIPNPIGSENSEKT TM(+15.99)PL, DAPSFSDIPNPIGSENSEKT TMPL	ACE-inhibitory
		PLGTQYTDAPSFSDIPNPIG SENSEKTTM(+15.99)P, PLGTQYTDAPSFSDIPNPIG SENSEKTTMP	ACE-inhibitory
		KYKVPQLEIVPNS(+79.97) AEERL, KYKVPQLEIVPNSAEERL	Promote calcium uptake
		SKDIGSESTEDQAM(+15.99)EDI, SKDIGSESTEDQAMEDI	Promote calcium uptake
		DAPSFSDIPNPIGSENSE	Antioxidant
		KKYKVPQLEIVPNSA, KKYKVPQLEIVPNS(+79.97)	Promote calcium uptake

)A	
	YTDAPSFSDIPNPIGSENSEK	Antioxidant
	HQGLPQEVLN	Antimicrobial
	DIPNPIGSENSEKTTM(+15.99), DIPNPIGSENSEKTTM	Antimicrobial
	SENSEKTTM(+15.99)PL, SENSEKTTMPL	ACE-inhibitory
	TQYTDAPSFSDIPNPIGSENSEKTTM(+15.99)PLW, TQYTDAPSFSDIPNPIGSENSEKTTMPLW	ACE-inhibitory
	YYVPLGTQYTDAPSFSDIPNPIGSENSEKTT	ACE-inhibitory
	LKKYKVPQLEIVPNSAEE, LKKYKVPQLEIVPNS(+79.97)AEE	Promote calcium uptake
	QM(+15.99)EAESISSEEIVPNSVEQ	Immunomodulatory
	SESTEDQAMEDIK, SESTEDQAM(+15.99)EDIK	Promote calcium uptake
	KYKVPQLEIVPNS(+79.97)A, KYKVPQLEIVPNSA	Promote calcium uptake
	GTQYTDAPSFSDIPNPIGSENSEKTTM(+15.99)PLW, GTQYTDAPSFSDIPNPIGSENSEKTTMPLW	ACE-inhibitory
	LGTQYTDAPSFSDIPNPIGSENSEKTTM(+15.99), LGTQYTDAPSFSDIPNPIGSENSEKTTM	ACE-inhibitory
	YVPLGTQYTDAPSFSDIPNPIGSENSEK	ACE-inhibitory
	FFVAPFPEVFGKEKVNEL	induce macedocin biosynthesis
	DAPSFSDIPNPIGSENSEKT	Antioxidant
	FVAPFPEVFGKEKVNEL	induce macedocin biosynthesis
	ENLLRF	ACE-inhibitory
	KDIGSESTEDQAM(+15.99)EDIK	Promote calcium uptake
	DIPNPIGSENSEK	Antimicrobial
	LKKYKVPQLEIVPNS(+79.97)A,	Promote calcium uptake

	LKKYKVPQLEIVPNSA	
	YYVPLGTQYTDAPSFSDIP NPIGSENSEKTTM(+15.99), YYVPLGTQYTDAPSFSDIP NPIGSENSEKTTM	ACE-inhibitory
	VPLGTQYTDAPSFSDIPNPI GSENSEKTT	ACE-inhibitory
	APSFSDIPNPIGSENSE	Antioxidant
	APSFSDIPNPIGSENSEK	Antioxidant
	DAPSFSDIPNPIGSENSEK T	Antioxidant
	HIQKEDVPSERYLGYLEQ L	Antimicrobial
	GTQYTDAPSFSDIPNPIGSE NSEKTTMPL, GTQYTDAPSFSDIPNPIGSE NSEKTTM(+15.99)PL	ACE-inhibitory
	PSFSDIPNPIGSENSEK	Antioxidant
	PKHPIKHQGLPQEVLENEN LLR	Antimicrobial Immunomodulatory
	VPLGTQYTDAPSFSDIPNPI GSENSEKTTM(+15.99)P	ACE-inhibitory
	YTDAPSFSDIPNPIGSENSE KTTM(+15.99)PLW, YTDAPSFSDIPNPIGSENSE KTTMPLW	ACE-inhibitory
	QM(+15.99)EAESISSEEIV PNSVEQK, QMEAESISSEEIVPNSVE QK, QM(+15.99)EAESIS(+79.97)SEEIVPNSVEQK, QM(+15.99)EAES(+79.97)IS SS(+79.97)EEIVPNSVEQK, QMEAESIS(+79.97)SS(+79.9 7)EEIVPNSVEQK	Immunomodulatory
	QGLPQEVLENENL	Antioxidant
	YYVPLGTQYTDAPSFSDIP NPIGSENSEK	ACE-inhibitory
	YKVPQLE	ACE-inhibitory
	FSDIPNPIGSENSEKTT	Antimicrobial Antioxidant
	DIGSESTEDQAMEDIKQ, DIGSESTEDQAM(+15.99)E	Promote calcium uptake

	DIKQ	
	VAPFPEV	Inhibition of cholesterol solubility
	SFSDIPNPIGSENSEKT	Antimicrobial
		Antioxidant
	LGTQYTDAPSFSDIPNPIGSENSEKTTM(+15.99)PL, LGTQYTDAPSFSDIPNPIGSENSEKTTMPL	ACE-inhibitory
	PIKHQGLPQEV	Antimicrobial
	VAPFPEVFGKEKVNELSKD, VAPFPEVFGKEKVNELS(+79.97)KD	induce macedocin biosynthesis
	APSFSDIPNPIGSEN	Antioxidant
	KKYKVPQLEIVPNS(+79.97)AEERLH, KKYKVPQLEIVPNSAEERLH	Promote calcium uptake
	QYTDAPSFSDIPNPIGSENSE	Antioxidant
	GSENSEKTTMPL	ACE-inhibitory
	HQGLPQEV	Antimicrobial
	QEVLNENLLR	Antimicrobial
	LGTQYTDAPSFSDIPNPIGSENSEKTT	ACE-inhibitory
	RPKHPIKHQGLPQEV	Antimicrobial
	NLLRF	Immunomodulatory
	SFSDIPNPIGSENSEKTT	Antioxidant
	PSFSDIPNPIGSENSEKTTM(+15.99)	Antioxidant
	KTTMPLW	Antimicrobial
		ACE-inhibitory
	DAPSFSDIPNPIGSEN	Antioxidant
	APFPEVFG	ACE-inhibitory
	YTDAPSFSDIPNPIGSENSEKTTM(+15.99)PL, YTDAPSFSDIPNPIGSENSEKTTMPL	ACE-inhibitory
	RPKHPIKHQG	ACE-inhibitory
	KKYKVPQLEIVPNSAEE	Promote calcium uptake

	FVAPFPEV	ACE-inhibitory
	QYTDAPSFSDIPNPIGSENS EKTT	ACE-inhibitory
	FSDIPNPIGSENSEK	Antimicrobial
		Antioxidant
	IPNPIGSENSEK	Antimicrobial
	PKHPIKHQGLPQEVLNEN LL	Antimicrobial
		Immunomodulatory
	PFPEVFGKE	Antioxidant
		ACE-inhibitory
	GSENSEKTTM	ACE-inhibitory
	SKDIGSESTEDQAM(+15.99))EDIKQ, SKDIGSESTEDQAMEDIKQ	Promote calcium uptake
	KYKVPQLEIVPNS(+79.97) AEE, KYKVPQLEIVPNSAEE	Promote calcium uptake
	IKHQGLPQEVLN	Antimicrobial
	YKVPQLEIVPNSAE	Promote calcium uptake
	YTDAPSFSDIPNPIGSENSE KTTM(+15.99)	ACE-inhibitory
	KVPQLEIVPNSAEERL, KVPQLEIVPNS(+79.97)AE ERL	Promote calcium uptake
	VPLGTQYTDAPSFSDIPNPI GSENSEKTTM(+15.99)PL, VPLGTQYTDAPSFSDIPNPI GSENSEKTTMPL	ACE-inhibitory
	AESISSSEEIVPNSVEQ	Immunomodulatory
	FSDIPNPIGSENSE	Antimicrobial
		Antioxidant
	PLGTQYTDAPSFSDIPNPIG SENSEKTTM(+15.99)	ACE-inhibitory
	KHPIKHQGLPQEVLNENL LRF	Antimicrobial
		Immunomodulatory
	FVAPFPEVFGKEKVNELS KD	induce macedocin biosynthesis
	ARPKHPIK	Antimicrobial
	SFSDIPNPIGSENSE	Antimicrobial
		Antioxidant

	YKVPQLEIVPNS(+79.97)AEERL, YKVPQLEIVPNSAEERL	Promote calcium uptake
	PIKHQGLPQEVLENL	Antioxidant
	HPIKHQGLPQEVLE	Antioxidant
	IGSESTEDQAM(+15.99)EDIKQ, IGSESTEDQAMEDIKQ	Promote calcium uptake
	RFFVAPFPEVFGKEKV	induce macedocin biosynthesis
	DAPSFSDIPNPIGSENS	Antioxidant
	APSFSDIPNPIGSENSEKT	Antioxidant
	YYVPLGTQYTDAPSFSDIPNPIGSENSEK	ACE-inhibitory
	TDAPSFSDIPNPIGSENS	Antioxidant
	SFSDIPNPIGSENSEK	Antimicrobial
		Antioxidant
	YKVPQL	ACE-inhibitory
	GTQYTDAPSFSDIPNPIGSENSEKTT	ACE-inhibitory
	FFVAPFPEVFGKEKVNELS	induce macedocin biosynthesis
	LGTQYTDAPSFSDIPNPIGSENSEK	ACE-inhibitory
	APSFSDIPNPIGSENSEKTT	Antioxidant
	TQYTDAPSFSDIPNPIGSENSEKTT	ACE-inhibitory
	GYLEQLLRL	Anxiolytic
		Antimicrobial
	KYKVPQL	ACE-inhibitory
	PLGTQYTDAPSFSDIPNPIGSENSEKTTMPL, PLGTQYTDAPSFSDIPNPIGSENSEKTTM(+15.99)PL	ACE-inhibitory
	VLNENLLRFF	Antimicrobial
	KDIGSESTEDQAM(+15.99)EDIKQ	Promote calcium uptake
	ARPKHPIKHQ	ACE-inhibitory
	GTQYTDAPSFSDIPNPIGSENSEKT	ACE-inhibitory
	PSFSDIPNPIGSENSEKTT	Antioxidant
	HQGLPQEVLENLLRF	Antioxidant
	APSFSDIPNPIGSE	Antioxidant
	SKDIGSESTEDQAM(+15.99)	Promote calcium uptake

)E	uptake
		KDIGSESTEDQAM(+15.99) E	Promote calcium uptake
		TDAPSFSDIPNPIGSE	Antioxidant
		DIPNPIGSEN	Antioxidant
		LRLKKYKVPQ	Antimicrobial
		LGTQYTDAPSFSDIPNPIGS ENSEKT	ACE-inhibitory
		TQYTDAPSFSDIPNPIGSEN SEKTTM(+15.99)	ACE-inhibitory
		KQMEAESISSSEEIVPNSV	Immunomodulatory
		SFSDIPNPIGS	Antioxidant
		PKHPIKH	Antimicrobial
		EAESISSSEEIVPNSVEQ	Immunomodulatory
		DIGSESTEDQAM(+15.99)E DIKQM(+15.99)	Promote calcium uptake
		LRLKKYKVP	Antimicrobial
P02663	CSN1S2	GPIVLNPWDQVK	Antimicrobial
		VLNPWDQVK	Antimicrobial
		TKVIPYVRYL	Antimicrobial
		KPWIQPKTKVIP	Antimicrobial
		VIPYVRYL	Antimicrobial
		PYVRYL	Antioxidant
			Antimicrobial
			ACE-inhibitory
		IVLNPWDQVK	Antimicrobial
		KTKLTEEEKNRLNFL	Antimicrobial
		FALPQYLK	Antioxidant
			ACE-inhibitory
		TKVIPYVRY	Antimicrobial
		KPWIQPKT	ACE-inhibitory
		IPYVRYL	Antioxidant
			Antimicrobial
			ACE-inhibitory
		AM(+15.99)KPWIQPKTK, AMKPWIQPKTK	ACE-inhibitory
		AMKPWIQP, AM(+15.99)KPWIQP	ACE-inhibitory
		AM(+15.99)KPWIQPKT, AMKPWIQPKT	ACE-inhibitory
		VLNPWDQVKRN	Antimicrobial
		M(+15.99)KPWIQPKTKVIP, MKPWIQPKTKVIP	Antimicrobial

	TKVIPYVR	Antimicrobial
	RNAVPITPT	Osteoanabolic
	AM(+15.99)KPWIQPKTKVI P, AMKPWIQPKTKVIP	Antimicrobial
	KVIPYVRYL	Antimicrobial
	AM(+15.99)KPWIQPKTKVI PYVRYL, AMKPWIQPKTKVIPYVRY L	Antimicrobial
	LNPWDQVK	Antimicrobial
	ALPQYLKT	Antioxidant
		ACE-inhibitory
	KVIPYVRY	Antimicrobial
	KTKLTEEEKNRLNF	Antimicrobial
	VLNPWDQVQR	Antimicrobial
	KFALPQYL	Antioxidant
		ACE-inhibitory
	FALPQYLKT	Antioxidant
		ACE-inhibitory
	AM(+15.99)KPWIQPK, AMKPWIQPK	ACE-inhibitory
	YQKFPQY	Antioxidant
		ACE-inhibitory
	AM(+15.99)KPWIQPKTKVI PY, AMKPWIQPKTKVIPY	Antimicrobial
	KPWIQPK	ACE-inhibitory
	GPIVLNPWDQV	Antimicrobial
	KTKLTEEEKNRLN	Antimicrobial
	AM(+15.99)KPWIQPKTKVI PYVR, AMKPWIQPKTKVIPYVR	Antimicrobial
	M(+15.99)KPWIQPKTK, MKPWIQPKTK	ACE-inhibitory
	M(+15.99)KPWIQPKTKVIP Y, MKPWIQPKTKVIPY	Antimicrobial
	KRNAVPITPT	Osteoanabolic
	KAM(+15.99)KPWIQP, KAMKPWIQP	ACE-inhibitory
	NM(+15.99)AINPSKEN, NM(+15.99)AINPS(+79.97)K EN, NMAINPSKEN, NMAINPS(+79.97)KEN	ACE-inhibitory
	VYQHQBKAM(+15.99)KPWI	Antimicrobial

	QPKTKVIPY, VYQHQAAMKPKWIQPKTK VIPY	
	TVYQHQ	ACE-inhibitory
	TKKTKLTEEEKNRLNFL	Antimicrobial
	FLKKIS	Antimicrobial
	KPWIQPKTKVIPYVRYL	Antimicrobial
	KPWIQPKTKVIPY	Antimicrobial
	TVYQHQAAM(+15.99)KP WIQPKTKVIP, TVYQHQAAMKPKWIQPKTK KVIP	Antimicrobial
	FLKKISQ	Antimicrobial
	IQPKTKVIPYVRYL	Antimicrobial
	KPWIQPKTKVIPYVR	Antimicrobial
	IVLNPWDQVKR	Antimicrobial
	YQKFPQYL	Antioxidant
		ACE-inhibitory
	YQKFPQ	Antioxidant
		ACE-inhibitory
	NAVITPTLN	Osteoanabolic
	VYQHQAAMKPKWIQPKTK VIP, VYQHQAAM(+15.99)KPKWI QPKTKVIP	Antimicrobial
	ALPQYLK	Antioxidant
		ACE-inhibitory
	M(+15.99)KPKWIQ, MKPKWIQ	ACE-inhibitory
	AM(+15.99)KPKWIQPKTKVI PYV, AMKPKWIQPKTKVIPYV	Antimicrobial
	QAAM(+15.99)KPKWIQ, QAAMKPKWIQ	ACE-inhibitory
	KISQRYQKFALPQYLK	Antimicrobial
	M(+15.99)KPKWIQPKTK, MKPKWIQPKTK	ACE-inhibitory
	KISQRYQKFALPQYLKT	Antimicrobial
	QPKTKVIPYVRYL	Antimicrobial
	KISQRYQKFALPQYL	Antimicrobial
	M(+15.99)KPKWIQPKTKVIP YVRYL, MKPKWIQPKTKVIPYVRYL	Antimicrobial

	ISQRYQKFALPQYL	Antimicrobial
	FALPQYLKTV	Antioxidant
		ACE-inhibitory
	QFYQKFPQYL	ACE-inhibitory
	VYQHQAAM(+15.99)KPWI QPKTKVIPYVRYL, VYQHQAAMKPWIQPKTK VIPYVRYL	Antimicrobial
	AM(+15.99)KPWIQPKTKVI PYVRY, AMKPWIQPKTKVIPYVRY	Antimicrobial
	ALNEINQF	Antimicrobial
		ACE-inhibitory
		Antioxidant
	NM(+15.99)AINPSKE, NMAINPSKE	ACE-inhibitory
	M(+15.99)KPWIQPKTKVIP YV	Antimicrobial
	IPYVRY	Antioxidant
		Antimicrobial
		ACE-inhibitory
	ISQRYQKFALPQYLK	Antimicrobial
	LNPWDQVKN	Antimicrobial
	M(+15.99)KPWIQPKTKVIP YVR, MKPWIQPKTKVIPYVR	Antimicrobial
	KFPQYLQY	ACE-inhibitory
	LNPWDQVKN	Antimicrobial
	TKKTKLTEEEKNRLNF	Antimicrobial
	ISQRYQKFALPQYLKTVY QHQA	Antimicrobial
	PWIQPKTKVIPY	Antimicrobial
	SQRYQKFALPQYLKTVYQ HQ	Antimicrobial
	TKKTKLTEEEKNRLN	Antimicrobial
	M(+15.99)KPWIQPK	ACE-inhibitory
	YQHQAAM(+15.99)KPWIQ PKTKVIPY, YQHQAAMKPWIQPKTKVI PY	Antimicrobial
	KPWIQPKTKVIPYV	Antimicrobial
	KFALPQY	ACE-inhibitory
	IVLNPWDQVKN	Antimicrobial

		NAVPITPTLNR	Osteoanabolic
		VLNPWDQV	Antimicrobial
		IVLNPWDQV	Antimicrobial
		RNAVPITPTLN	Osteoanabolic
		TVYQHQAAM(+15.99)KP WIQPKTKVIPY	Antimicrobial
		QKALNEINQ	Antimicrobial
			Antioxidant
		KTVDMES(+79.97)TEVFTK KTKLTEEEKNRLNFLK	Antimicrobial
		KISQRYQKFALPQYLKTV YQHQ	Antimicrobial
		ALNEINQFY	Antimicrobial
			ACE-inhibitory
			Antioxidant
		FYQKFPQYL	ACE-inhibitory
		QKALNEINQFY	Antimicrobial
			ACE-inhibitory
			Antioxidant
		FPQYLQY	ACE-inhibitory
		TVYQHQAAM(+15.99)KP WIQPKTKVIPYVRYL	Antimicrobial
		YQKFPQYLQY	ACE-inhibitory
		QKAM(+15.99)KPWIQPK	ACE-inhibitory
		KFALPQYLKT	Antioxidant
			ACE-inhibitory
		QKFPQYLQY	ACE-inhibitory
		QPKTKVIPYVRY	Antimicrobial
		VYQHQAAM(+15.99)KPWI QPKTKVIPYVRY	Antimicrobial
		IQPKTKVIPY	Antimicrobial
		ISQRYQKFALPQYLKT	Antimicrobial
		QKFPQY	Antioxidant
			ACE-inhibitory
		KAM(+15.99)KPWIQPK	ACE-inhibitory
		QKFPQYL	Antioxidant
			ACE-inhibitory
		NEINQFYQK	ACE-inhibitory
P02666;A0A452 DHW7	CSN2		Cytomodulatory
		EPVLPVVRGPF	Antimicrobial
			ACE-inhibitory
		GPVVRGPF	ACE-inhibitory
		EPVLPVVR	Cytomodulatory

			ACE-inhibitory
			Immunomodulatory
			Antithrombotic
			Antioxidant
			Anti-inflammatory
		VPYPQRDM(+15.99)PIQA, VPYPQRDMPIQA	Antimicrobial
		KIEKFQSEEQQQTEDELQD K, KIEKFQS(+79.97)EEQQQT EDELQDK	Promote calcium uptake
		GPVRGPFPIIV	ACE-inhibitory
		EPVLGPVRGPFPIIV	immunomodulatory
			antithrombin
			Antimicrobial
			ACE-inhibitory
			Antimicrobial
		M(+15.99)PFPKYPVEPFTE SQS, MPFPKYPVEPFTESQS	Antioxidant
		FPKYPVEPFTESQSL, FPKYPVEPFTES(+79.97)QS L	ACE-inhibitory
		HKEMPFKYPVEPFTESQS L, HKEM(+15.99)PFPKYPVEP FTESQSL, HKEMPFKYPVEPFTESQS (+79.97)L	Antioxidant
		QEPVLGPVRGPFPIIV	immunomodulatory
			antithrombin
			Antimicrobial
			ACE-inhibitory
		VLGPVRGPF	Cytomodulatory
			ACE-inhibitory
		HKEM(+15.99)PFP, HKEMPFP	Antimicrobial
		VKEAM(+15.99)APKH, VKEAMAPKH	Antioxidant
			Antimicrobial
		VPYPQRD	Antioxidant
			Antimicrobial
			ACE-inhibitory
		YPFPGPIP	prolyl

			endopeptidase-inhibitory
			PEP-inhibitory
			DPP-IV Inhibitory
			ACE-inhibitory
			Antioxidant
			anti-anxiety
		VLPVPQK	Antioxidant
			Antimicrobial
			ACE-inhibitory
			Wound healing
			Osteoanabolic
			anti-apoptotic effect
			Anti-inflammatory
			Inhibition of cholesterol solubility
		EPVLPVVRGPFPI	Antimicrobial
			ACE-inhibitory
		GPVRGPFPII	ACE-inhibitory
		FPKYPVEPFOTESQS	ACE-inhibitory
		HKEM(+15.99)PFPKYPVEPFTESQSLT, HKEMPFPKYPVEPFTESQSLT	Antioxidant
		RGPFPIIV	ACE-inhibitory
		KIEKFQS(+79.97)EEQQQT EDELQDKIHPFA, KIEKFQSEEQQQTEDELQDKIHPFA	Promote calcium uptake
		IEKFQS(+79.97)EEQQQTE DELQD, IEKFQSEEQQQTEDELQD	Promote calcium uptake
		EM(+15.99)PFPKYPVEPFTESQ, EMFPKYPVEPFTESQ	Antioxidant
		EPVLPVVRGPFPII	immunomodulatory
			antithrombin
			Antimicrobial
			ACE-inhibitory
		YPVEPFTESQSL	ACE-inhibitory
		M(+15.99)PFPKYPVEPFTESQSLT, MPFPKYPVEPFTESQSLT	Antioxidant

		QEPVLPVVRGPF	Antimicrobial
			ACE-inhibitory
		KEM(+15.99)PFPKYPVEPFTESQSL, KEMPFKYPVEPFTESQSL	Antioxidant
		KIEKFQS(+79.97)EEQQQT EDELQDKIHPF, KIEKFQSEEQQQTEDELQDKIHPF	Promote calcium uptake
		SQSKVLPVPQKAVPYPQR DMP, SQSKVLPVPQKAVPYPQR DM(+15.99)P	Antioxidant
		FQSEEQQQTEDELQDK, FQS(+79.97)EEQQQTEDELQDK	Promote calcium uptake
		HKEM(+15.99)PFPKYPVEPFTESQ, HKEMPFKYPVEPFTESQ	Antioxidant
		SKVKEAM(+15.99)APKH, SKVKEAMAPKH	Antimicrobial
		MPFPKYPVEPFTESQSL, M(+15.99)PFPKYPVEPFTESQSL, MPFPKYPVEPFT(+79.97)ESQSL	Antioxidant
		SKVKEAMAPK, SKVKEAM(+15.99)APK	Antioxidant
			Antimicrobial
		VKEAMAPK, VKEAM(+15.99)APK	Antioxidant
			Antimicrobial
		FQSEEQQQTEDELQDKIHP FAQT, FQS(+79.97)EEQQQTEDELQDKIHPFAQT	Promote calcium uptake
		M(+15.99)PFPKYPVEPFTESQ, MPFPKYPVEPFTESQ	Antioxidant
		KEAMAPKH, KEAM(+15.99)APKH	Antioxidant
			Antimicrobial
		EM(+15.99)PFPKYPVEPFTESQS, EMPFKYPVEPFTESQS	Antioxidant
			Cytomodulatory
			ACE-inhibitory
	Immunomodulatory		

			Antithrombotic
			Antioxidant
			Anti-inflammatory
		KFQS(+79.97)EEQQQTEDE LQDK, KFQSEEQQQTEDELQDK	Promote calcium uptake
		FQSEEQQQTEDELQDKIHP FAQTQS, FQS(+79.97)EEQQQTEDEL QDKIHPFAQTQS	Promote calcium uptake
		EAMAPKHK, EAM(+15.99)APKHK	Antimicrobial
		SKVKEAM(+15.99)APKHK EMPFKYPVEPFTESQ, SKVKEAM(+15.99)APKHK EM(+15.99)PFPKYPVEPFT ESQ, SKVKEAMAPKHKEMPF KYPVEPFTESQ	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
			Opioid
			increases mMuc4 expression
			increase small intestinal goblet cell density
			Increase MUC2 expression
		PVRGPFPIIV	ACE-inhibitory
		MPFPKYPVEP, M(+15.99)PFPKYPVEP	ACE-inhibitory
			Antioxidant
		FQS(+79.97)EEQQQTEDEL QDKIHPF, FQSEEQQQTEDELQDKIHP F	Promote calcium uptake
		LPPTVMFPPQSVL, LPPTVM(+15.99)FPPQSVL	DPP-IV Inhibitory
		HPFAQTQ	prolyl endopeptidase-inhibito ry
			PEP-inhibitory
		HKEM(+15.99)PFPKYPVEP FTESQS, HKEMPFKYPVEPFTESQS	Antioxidant

		KFQSEEQQTTEDELQDKI HPFAQTQ, KFQS(+79.97)EEQQQTEDE LQDKIHPFAQTQ	Promote calcium uptake
		EM(+15.99)PFPK	Increase MUC4 expression
			Bradykinin-Potentiating
			Antimicrobial
			ACE-inhibitory
		FQS(+79.97)EEQQQTEDEL QD, FQSEEQQTTEDELQD	Promote calcium uptake
		VKEAM(+15.99)APKHKEM (+15.99)PFPKYVPEPFTESQ SL, VKEAMAPKHKEM(+15.99) PFPKYVPEPFTESQSL, VKEAMAPKHKEMPFPKY VPEPFTESQSL	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
			Opioid
			increases mMuc4 expression
			increase small intestinal goblet cell density
			Increase MUC2 expression
		GVSKVKEAM(+15.99)APK HKEM(+15.99)PFPKYVPEP FTESQ, GVSKVKEAMAPKHKEM(+ 15.99)PFPKYVPEPFTESQ, GVSKVKEAMAPKHKEMP FPKYVPEPFTESQ	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
			Opioid
			increases mMuc4 expression
			increase small intestinal goblet cell density
			Increase MUC2 expression

	LTDVENLHLP	ACE-inhibitory
	S(+79.97)EEQQQTEDELQDKIHPFAQTQ, SEEQQQTEDELQDKIHPFAQTQ	Promote calcium uptake
	EEQQQTEDELQDKIHPFAQTQ	Promote calcium uptake
	VLGPVRGPFPII	ACE-inhibitory
	SKVKEAMAPKHK, SKVKEAM(+15.99)APKHK	Antimicrobial
	SLSQSKVLPVPQKAVPYP	Antioxidant
	IHPFAQT	prolyl endopeptidase-inhibitory
		PEP-inhibitory
	SQSKVLPVPQK	ACE-inhibitory
	SLSQSKVLPVPQKAVPYPQR	Antioxidant
	KEAMAPKHKEMPFKYPVEPFTESQSL, KEAM(+15.99)APKHKEMPFKYPVEPFTESQSL, KEAM(+15.99)APKHKEM(+15.99)PFKYPVEPFTESQSL	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
		Opioid
		increases mMuc4 expression
		increase small intestinal goblet cell density
		Increase MUC2 expression
	AVPYPQRD	Antioxidant
		Antimicrobial
		ACE-inhibitory
	VRGPFPI	ACE-inhibitory
	VRGPFPIV	ACE-inhibitory
	PVPQKAVPYPQRDM(+15.99)P, PVPQKAVPYPQRDMP	Antimicrobial
	GVSQVKEAM(+15.99)APKHKEMPFKYPVEPFTESQSLT,	protective effects in indomethacin-induced

		GVSKVKEAM(+15.99)APKHKEM(+15.99)PFPKYVPEPFTESQSLT, GVSKVKEAMAPKHKEMPFPKYVPEPFTESQSLT	enteritis through preservation of goblet cells and improvement in wound healing
			Opioid
			increases mMuc4 expression
			increase small intestinal goblet cell density
			Increase MUC2 expression
		KEM(+15.99)PFPK, KEMPFPK	Increase MUC4 expression
			Bradykinin-Potentiating
			Antimicrobial
		SKVKEAM(+15.99)APKHKEM(+15.99)PFPKYVPEPFTES, SKVKEAMAPKHKEM(+15.99)PFPKYVPEPFTES, SKVKEAMAPKHKEMPFPKYVPEPFTES	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
			Opioid
			increases mMuc4 expression
			increase small intestinal goblet cell density
			Increase MUC2 expression
		EM(+15.99)PFPKYVPEPFTESQSL, EMPFPKYVPEPFTESQSL	Antioxidant
		KVKEAM(+15.99)AP, KVKEAMAP	Antioxidant
Antimicrobial			
RELEELN	Antioxidant		
HKEM(+15.99)PFPK, HKEMPFPK	Antimicrobial		
IPPLTQTP	DPP-IV Inhibitory		

			ACE-inhibitory
		DVENLHLPLP	ACE-inhibitory
			Antimicrobial
		VKEAM(+15.99)APKHK, VKEAMAPKHK	Antioxidant
			Antimicrobial
		EKFQSEEQQTEDELQD, EKFQS(+79.97)EEQQQTED ELQD	Promote calcium uptake
		QEPVLGPVR	Cytomodulatory
			ACE-inhibitory
			Immunomodulatory
			Antithrombotic
			Antioxidant
			Anti-inflammatory
		IEKFQS(+79.97)EEQQQTE DELQDK, IEKFQSEEQQTEDELQDK	Promote calcium uptake
		SEEQQQTEDELQDK, S(+79.97)EEQQQTEDELQD K	Promote calcium uptake
		YPFPGPIPNSLPQNIPP	ACE-inhibitory
		FQSEEQQTEDELQDKIHP FAQTQ, FQS(+79.97)EEQQQTEDEL QDKIHPFAQTQ	Promote calcium uptake
		QRDM(+15.99)PIQA, QRDMPIQA	ACE-inhibitory
		KIEKFQSEEQQTEDELQD KIHP, KIEKFQS(+79.97)EEQQQT EDELQDKIHP	Promote calcium uptake
		IHPFAQTQ	prolyl endopeptidase-inhibitory
			PEP-inhibitory
		VPYQRDM(+15.99)PIQAF L, VPYQRDMPIQAFL	Antimicrobial
		EEQQQTEDELQDK	Promote calcium uptake
		EM(+15.99)PFPKYPVEPFT ES, EMPFPKYPVEPFTES	Antioxidant
		EPVLGPVRGPF	Cytomodulatory
			ACE-inhibitory

		KEAM(+15.99)APKHKEM(+15.99)PFPKYPVEPFTESQ, KEAM(+15.99)APKHKEMP FPKYPVEPFTESQ, KEAMAPKHKEMPFPKYPVEPFTESQ	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
			Opioid
			increases mMuc4 expression
			increase small intestinal goblet cell density
			Increase MUC2 expression
		LEELNVPGEIVES	Antimicrobial
		VPYPQRDM(+15.99)PIQAF, VPYPQRDMPIQAF	Antimicrobial
		KAVPYPQRDM(+15.99)PIQ AFL, KAVPYPQRDMPIQAFL	Antimicrobial
		SSS(+79.97)EESITR, SSSEESITR, SS(+79.97)S(+79.97)EESITR	Antimicrobial
		GVSKVKEAM(+15.99)APK, GVSKVKEAMAPK	Antimicrobial
		YQEPVLGPVRGPFPIIV	immunomodulatory
			antithrombin
			Antimicrobial
			ACE-inhibitory
		AVPYPQRDM(+15.99)PIQAF, AVPYPQRDMPIQAF	Antimicrobial
		QEPVLGPVRGPFPII	immunomodulatory
			antithrombin
			Antimicrobial
			ACE-inhibitory
			Antimicrobial
		KEAMAPK, KEAM(+15.99)APK	Antioxidant
			Antimicrobial
		SEESITRIN, S(+79.97)EESITRIN	Antimicrobial
		KVKEAM(+15.99)APK,	Antioxidant

		KVKEAMAPK	Antimicrobial
		EAMAPKH, EAM(+15.99)APKH	Antimicrobial
		KEMPFKYPVEPFOTESQS, KEM(+15.99)PFPKYPVEPF TESQS	Antioxidant
		GPVRGPFPI	ACE-inhibitory
		LSS(+79.97)S(+79.97)EESIT R, LSSSEESITR, LSS(+79.97)SEESITR	Antimicrobial
		DVENLHLPLLLQ	ACE-inhibitory Antimicrobial
		VKEAM(+15.99)APKHKEM (+15.99)PFPKYPVEPFOTESQ S, VKEAM(+15.99)APKHKEM PFPKYPVEPFOTESQS, VKEAMAPKHKEMPFPKY PVEPFOTESQS	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing Opioid increases mMuc4 expression increase small intestinal goblet cell density Increase MUC2 expression
		FQSEEQQTDELQDKIH, FQS(+79.97)EEQQTDEL QDKIH	Promote calcium uptake
		SLPQNIPPLTQTPVVPPFL QPEVMGV, SLPQNIPPLTQTPVVPPFL QPEVM(+15.99)GV	ACE-inhibitory
		EM(+15.99)PFPKYPVEPFT ESQSLT, EMPFPKYPVEPFOTESQSLT	Antioxidant
		GVSKEAM(+15.99)APK HKEM(+15.99)PFPKYPVEP, GVSKEAMAPKHKEM(+ 15.99)PFPKYPVEP	protective effects in indomethacin-induced enteritis through preservation of goblet cells and

			improvement in wound healing
			Opioid
			increases mMuc4 expression
			increase small intestinal goblet cell density
			Increase MUC2 expression
		FQS(+79.97)EEQQQTEDELQDKIHPFA, FQSEEQQTEDELQDKIHPFA	Promote calcium uptake
		FPKYPVEP	ACE-inhibitory
			Antioxidant
		SLSQSKVLPVPQKAVPYPQRD	Antioxidant
		KEAMAPKHKEM(+15.99)P FPKYPVEPFTESQS, KEAM(+15.99)APKHKEM(+15.99)P FPKYPVEPFTESQS, KEAMAPKHKEMPFKYPVEPFTESQS	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
			Opioid
			increases mMuc4 expression
			increase small intestinal goblet cell density
			Increase MUC2 expression
		SSSEESITRIN, SS(+79.97)SEESITRIN, S(+79.97)SS(+79.97)EESITRIN, S(+79.97)S(+79.97)S(+79.97)EESITRIN	Antimicrobial
		LPVPQKAVPYPQRDM(+15.99)P, LPVPQKAVPYPQRDMP	Antimicrobial
		QSEEQQTEDELQDK,	Promote calcium

	QS(+79.97)EEQQQTEDELQDK	uptake
	VRGPFPP	ACE-inhibitory
	KIEKFQSEEQQQTEDELQDKIH, KIEKFQS(+79.97)EEQQQT EDELQDKIH	Promote calcium uptake
	VENLHLPLP	ACE-inhibitory Antimicrobial
	TLTDVENLHLP	ACE-inhibitory
	VLPVPQKAVPYPQ	Antimicrobial
	EVM(+15.99)GVSKVKEAM(+15.99)APK, EVMGVSKVKEAM(+15.99)APK	Antimicrobial
	AVPYPQRDM(+15.99)PIQA, AVPYPQRDMPIQA	Antimicrobial
	LVYPPFGPIP	prolyl endopeptidase-inhibitory
		PEP-inhibitory
		prolyl endopeptidase-inhibitory
		DPP-IV Inhibitory
		ACE-inhibitory
		Antioxidant
		anti-anxiety
	TPVVVPPFLQPE	Antioxidant
		Antimicrobial
		ACE-inhibitory
	VLGPVRGPFPI	ACE-inhibitory
	VENLHLPL	ACE-inhibitory
	KFQSEEQQQTEDELQD, KFQS(+79.97)EEQQQTEDELQD	Promote calcium uptake
	SKVKEAM(+15.99)APKHKEM(+15.99)PFPKYPVEPFTESQS, SKVKEAMAPKHKEMPFPKYPVEPFTESQS, SKVKEAMAPKHKEM(+15.99)PFPKYPVEPFTESQS	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in

			wound healing
			Opioid
			increases mMuc4 expression
			increase small intestinal goblet cell density
			Increase MUC2 expression
		IEKFQSEEQQTTEDELQDK IH	Promote calcium uptake
		TPVVVPPFLQPEV	Antioxidant
			Antimicrobial
			ACE-inhibitory
		TDVENLHLP	ACE-inhibitory
		QEPVLGPVRGP	Cytomodulatory
			ACE-inhibitory
			Immunomodulatory
			Antithrombotic
			Antioxidant
			Anti-inflammatory
		IPPLTQTPVVVPPFLQPEV	ACE-inhibitory
		LGPVRGPFP	ACE-inhibitory
		YQEPVLGPVRGPFP	immunomodulatory
			antithrombin
			Antimicrobial
			ACE-inhibitory
		SQSKVLPVPQ	ACE-inhibitory
		SKVKEAM(+15.99)APKHK EMPFPKYPVEPFTESQSLT, SKVKEAM(+15.99)APKHK EM(+15.99)PFPKYPVEPFT ESQSLT, SKVKEAMAPKHKEMPFP KYPVEPFTESQSLT	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
			Opioid
			increases mMuc4 expression
			increase small intestinal goblet cell density
			Increase MUC2

			expression
		QPHQPLPP	ACE-inhibitory
		VVPPFLQPE	Antimicrobial
		SKVKEAM(+15.99)APKHK EM(+15.99)PFPKYPVEPFT ESQSLTL, SKVKEAM(+15.99)APKHK EMPFPKYPVEPFTESQSLT L	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
			Opioid
			increases mMuc4 expression
			increase small intestinal goblet cell density
			Increase MUC2 expression
		RELEELNVPGEIVESLSSSE ESITR, RELEELNVPGEIVESLSS(+ 79.97)S(+79.97)EESITR	Caseinophosphopeptid e
			Immunomodulatory
			promotes calcium uptake
		VLPVPQKAVPYPQR	Antimicrobial
		DKIHFAQTQ	prolyl endopeptidase-inhibito ry
			PEP-inhibitory
			ACE-inhibitory
		SKVKEAM(+15.99)APKHK EM(+15.99)PFPKYPVEPFT ESQSL, SKVKEAMAPKHKEM(+15. 99)PFPKYPVEPFTESQSL, SKVKEAMAPKHKEMPFP KYPVEPFTESQSL	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
			Opioid
			increases mMuc4 expression
			increase small intestinal goblet cell density

			Increase MUC2 expression
		IHPFAQTQS	prolyl endopeptidase-inhibitory
			PEP-inhibitory
		FPKYPVEPFTESQSLT	ACE-inhibitory
		GYSKVKEAM(+15.99)AP, GYSKVKEAMAP	Antimicrobial
		GYSKVKEAM(+15.99)APKH, GYSKVKEAMAPKH	Antimicrobial
		GYSKVKEAMAPKHK, GYSKVKEAM(+15.99)APKHK	Antimicrobial
		EM(+15.99)PFPKYPVEPF, EMPFPKYPVEPF	ACE-inhibitory
		KEAMAPKHKEM(+15.99)PFPKYPVEPFTESQSLT, KEAMAPKHKEMPFPKYPVEPFTESQSLT	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
			Opioid
			increases mMuc4 expression
			increase small intestinal goblet cell density
			Increase MUC2 expression
		HKEM(+15.99)PFPKYPVEPFTES, HKEMPFPKYPVEPFTES	Antioxidant
		VVPPFLQPEVM(+15.99), VVPPFLQPEVM	Antimicrobial
		VYSKVKEAM(+15.99)APK, VYSKVKEAMAPK	Antimicrobial
		FLLYQEPVLPV	Anti-inflammatory
			ACE-inhibitory
		PQNIPPLTQTPVVVPPF	ACE-inhibitory
		HPFAQTQS	prolyl endopeptidase-inhibitory

			ry
			PEP-inhibitory
		LYQEPVLPVVRGPF	immunomodulatory
			antithrombin
			Antimicrobial
			ACE-inhibitory
		EAM(+15.99)APKHKEM(+15.99)PFPKYPVEPFTESQSL, EAMAPKHKEMPFPKYPVEPFTESQSL, EAM(+15.99)APKHKEMPFKYPVEPFTESQSL	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
			Opioid
			increases mMuc4 expression
			increase small intestinal goblet cell density
			Increase MUC2 expression
		FPKYPVEPFT	Antioxidant
		LLYQEPVLPV	ACE-inhibitory
			Immunomodulatory
			Antithrombotic
			Antioxidant
			Anti-inflammatory
			ACE-inhibitory
		SQSKVLPVPQKAVPYPQR D	Antioxidant
		SKVKEAMAPKHKEMPFPKYPVEPF, SKVKEAM(+15.99)APKHKEM(+15.99)PFPKYPVEPF, SKVKEAMAPKHKEM(+15.99)PFPKYPVEPF	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
			Opioid
			increases mMuc4 expression
			increase small

			intestinal goblet cell density
			Increase MUC2 expression
		VLSLSQSKVLPVPQKAVP YPQ	Antioxidant
		KEAM(+15.99)APKHKEM(+15.99)PFPKYVPEPFTES, KEAMAPKHKEM(+15.99)PFPKYVPEPFTES	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
			Opioid
			increases mMuc4 expression
			increase small intestinal goblet cell density
			Increase MUC2 expression
		NIPPLTQTPV	ACE-inhibitory
		SQSKVLPVPQKAVPYPQ	Antioxidant
		YPFPGPIPNSL	DPP-IV Inhibitory
			ACE-inhibitory
			Antioxidant
			anti-anxiety
		PFPKYVPEPFTESQSL	ACE-inhibitory
		KEM(+15.99)PFPKYVPEPFTESQ, KEMPFPKYVPEPFTESQ	Antioxidant
		IEKFQS(+79.97)EEQQQTE DELQDKIHPFAQ, IEKFQSEEQQTEDELQDK IHPFAQ	Promote calcium uptake
		SLVYPFPGPIP	prolyl endopeptidase-inhibitory
			PEP-inhibitory
			Antioxidant
			ACE-inhibitory
		FQSEEQQTEDELQDKIHPFAQ,	Promote calcium uptake

	FQS(+79.97)EEQQQTEDEL QDKIHFAQ	
	VLGPVRGP	Cytomodulatory ACE-inhibitory
	LSLSQSKVLPVPQKAVPYP QR	Antioxidant
	KFQS(+79.97)EEQQQTEDE LQDKIHFP, KFQSEEQQQTEDELQDKI HPF	Promote calcium uptake
	AVPYPQRDM(+15.99)PIQA FL, AVPYPQRDMPIQAFL	Antimicrobial
	GYSKVKEAM(+15.99)APK HKEM(+15.99)PFPKYVPEP FTESQSL, GYSKVKEAMAPKHKEMP FPKYVPEPFTESQSL, GYSKVKEAMAPKHKEM(+ 15.99)PFPKYVPEPFTESQS L	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing Opioid increases mMuc4 expression increase small intestinal goblet cell density Increase MUC2 expression
	QEPVLGPVRGPFPI	immunomodulatory antithrombin Antimicrobial ACE-inhibitory
	LSS(+79.97)S(+79.97)EESIT RINK, LSSSEESITRINK, LSSS(+79.97)EESITRINK	Antimicrobial
	GYSKVKEAMAPKHKEMP FPKYVPEPFTESQS, GYSKVKEAM(+15.99)APK HKEM(+15.99)PFPKYVPEP FTESQS, GYSKVKEAMAPKHKEM(+ 15.99)PFPKYVPEPFTESQS	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing Opioid

			increases mMuc4 expression
			increase small intestinal goblet cell density
			Increase MUC2 expression
		LSQSKVLPVPQK	ACE-inhibitory
		QNIPPLTQTPVVVPPFLQPE	ACE-inhibitory
		EDELQDKIHPF	Antimicrobial
		VM(+15.99)GVSKVKEAM(+15.99)APK	Antimicrobial
		YQEPVLGPVRGPFPI	immunomodulatory
			antithrombin
			Antimicrobial
			ACE-inhibitory
		SEEQQTEDELQDKIHP, S(+79.97)EEQQTEDELQDKIHP	Promote calcium uptake
		YQEPVLGPVRGPFPII	immunomodulatory
			antithrombin
			Antimicrobial
			ACE-inhibitory
		VYPFPGIPN	prolyl endopeptidase-inhibitory
			PEP-inhibitory
			DPP-IV Inhibitory
			ACE-inhibitory
			Antioxidant
			anti-anxiety
		QSKVLPVPQ	ACE-inhibitory
		HQPHQPLPPTVMFPPQSV, HQPHQPLPPTVM(+15.99)FPPQSV	Anti-inflammatory
			ACE-inhibitory
		SS(+79.97)S(+79.97)EESITRINK, SSS(+79.97)EESITRINK, SSSEESITRINK, S(+79.97)S(+79.97)S(+79.97)EESITRINK	Antimicrobial
		FQSEEQQTEDELQDKIHP	Promote calcium

		, FQS(+79.97)EEQQTEDEL QDKIHP	uptake
		S(+79.97)EESITRINK, SEESITRINK	Antimicrobial
		VKEAM(+15.99)APKHKEM (+15.99)PFPKY PVEPFTESQ	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
		, VKEAMAPKHKEM PFPKY PVEPFTESQ, VKEAMAPKHKEM(+15.99) PFPKY PVEPFTESQ	Opioid
			increases mMuc4 expression
			increase small intestinal goblet cell density
			Increase MUC2 expression
		VKEAM(+15.99)APKHKEM PFPKY PVEPFTESQSLT, VKEAMAPKHKEM PFPKY PVEPFTESQSLT	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
			Opioid
			increases mMuc4 expression
			increase small intestinal goblet cell density
			Increase MUC2 expression
		SLSQSKVLPVPQ	ACE-inhibitory
		SLPQNIPPLTQTPVVPPFL QPEVM(+15.99)GVSKVKE A, SLPQNIPPLTQTPVVPPFL QPEVMGVSKVKEA	ACE-inhibitory
		QDKIHPF	ACE-inhibitory

		FPKYPVEPFT	ACE-inhibitory
			Antioxidant
		VLPVPQKAVPYP	Antimicrobial
		RELEELNVPGEIVESLS(+79.97)S(+79.97)SEESITRINK, RELEELNVPGEIVES(+79.97)LS(+79.97)SS(+79.97)EESITRINK	Caseinophosphopeptide
			Immunomodulatory
			promotes calcium uptake
		LGPVRGPF	ACE-inhibitory
		LEELNVPGEIVE	Antimicrobial
		IEKFQS(+79.97)EEQQQTEDELQ, IEKFQSEEQQQTEDELQ	Promote calcium uptake
		SLVYPPFGPIP	Antioxidant
			ACE-inhibitory
		SKVLPVPQ	Antioxidant
			Anti-inflammatory
			ACE-inhibitory
		IHPFAQTQSL	prolyl endopeptidase-inhibitory
			PEP-inhibitory
		M(+15.99)PFPKYPVEPF, MPFPKYPVEPF	ACE-inhibitory
			Antioxidant
		KVLPVPQKA	Antioxidant
			Anti-inflammatory
		EELNVPGEIVES	Antimicrobial
		YPVEPFTESQSLT	ACE-inhibitory
		LSSSEESITRIN, LSSS(+79.97)EESITRIN, LS(+79.97)SS(+79.97)EESITRIN	Antimicrobial
		IEKFQSEEQQQTEDELQDK IHPFA, IEKFQS(+79.97)EEQQQTEDELQDKIHPFA	Promote calcium uptake
		LTDVENLHLPL	ACE-inhibitory
			Antimicrobial
		HQPHQPLPPTVM(+15.99)FPPQS, HQPHQPLPPTVMFPPQS	Anti-inflammatory
			ACE-inhibitory
		GVSKEAM(+15.99)APKHKEM(+15.99)PFPKYPVE,	protective effects in

		GYSKVKKEAMAPKHKEM(+15.99)PFPKYPVE	indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
			Opioid
			increases mMuc4 expression
			increase small intestinal goblet cell density
			Increase MUC2 expression
		YPQRDM(+15.99)PIQAFL, YPQRDMPIQAFL	Antimicrobial
		SLSQSKVLPVPQKAVPYPQ	Antioxidant
		VSKVKEAM(+15.99)APKH, VSKVKEAMAPKH	Antimicrobial
		SEEQQQTEDELQD, S(+79.97)EEQQQTEDELQD	Promote calcium uptake
		LVYFPFGPIP	prolyl endopeptidase-inhibitory
			PEP-inhibitory
			DPP-IV Inhibitory
			ACE-inhibitory
			Antioxidant
			anti-anxiety
FQS(+79.97)EEQQQTEDELQ, FQSEEQQQTEDELQ	Promote calcium uptake		
SQSKVLPVPQKAVPYPQRDM, SQSKVLPVPQKAVPYPQRDM(+15.99)	Antioxidant		
KIHPFAQTQ	prolyl endopeptidase-inhibitory		
	PEP-inhibitory		
	ACE-inhibitory		
TPVVVPPFLQPEVM(+15.99), TPVVVPPFLQPEVM	Antioxidant		
LSLSQSKVLPVPQKAVPYP	Antioxidant		

	Q	
	SEEQQTEDELQDKIHPFA Q, S(+79.97)EEQQTEDELQD KIHPFAQ	Promote calcium uptake
	SQSKVLPVPQKA	ACE-inhibitory
	YQEPVLPVVRGPF	Antimicrobial
		ACE-inhibitory
	QSEEQQTEDELQDKIHPF , QS(+79.97)EEQQTEDELQ DKIHPF	Promote calcium uptake
	IEKFQS(+79.97)EEQQTE DEL, IEKFQSEEQQTEDEL	Promote calcium uptake
	IEKFQSEEQQTEDELQDK IHPF, IEKFQS(+79.97)EEQQTE DELQDKIHPF	Promote calcium uptake
	KEM(+15.99)PFPKYPVEPF TESQSLT, KEMPFKYPVEPFTESQSL T	Antioxidant
	EQQTEDELQDKIHPFAQ TQ	Promote calcium uptake
	KFQS(+79.97)EEQQTEDE LQDKIHPFA, KFQSEEQQTEDELQDKI HPFA	Promote calcium uptake
	S(+79.97)SEESITRIN, S(+79.97)S(+79.97)EESITRI N	Antimicrobial
	QDKIHPFAQTQSLVYPPFG PIP	ACE-inhibitory
	S(+79.97)S(+79.97)EESITRI NK, SSEESITRINK	Antimicrobial
	QNIPPLTQTPVVVPPF	ACE-inhibitory
	QEPVLPVVRGPF	Cytomodulatory
		Antimicrobial
		ACE-inhibitory
	VSKVKEAM(+15.99)APKH K, VSKVKEAMAPKHK	Antimicrobial
	SQSKVLPVPQKAVPYPQR	Antioxidant
	LLYQEPVLPVVRGP	Antimicrobial

			ACE-inhibitory
		LLYQEPVLPVVRGPFPI	immunomodulatory
			antithrombin
			Antimicrobial
			ACE-inhibitory
		LPPTVMFPPQSV, LPPTVM(+15.99)FPPQSV	DPP-IV Inhibitory
		KAVPYPQRDM(+15.99)PIQ A, KAVPYPQRDMPIQA	Antimicrobial
		GYSKVKEAM(+15.99)APK HKE	Antimicrobial
		VSKVKEAM(+15.99)APKH KEM(+15.99)PFPKYPVEP, VSKVKEAMAPKHKEMPF PKYPVEP, VSKVKEAM(+15.99)APKH KEMPFKYPVEP	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
			Opioid
			increases mMuc4 expression
			increase small intestinal goblet cell density
			Increase MUC2 expression
		SLSQSKVLPVP	ACE-inhibitory
		PQNIPPLTQTPVVPPFLQ PE	ACE-inhibitory
		SLPQNIPPLTQTPVVPPFL QPEVMGVSKV, SLPQNIPPLTQTPVVPPFL QPEVM(+15.99)GVSKV	ACE-inhibitory
		SLPQNIPPLTQTPVVPPFL QPEVM(+15.99)GVSK	ACE-inhibitory
		SLPQNIPPLTQTPVVPPFL QPEVM(+15.99)GVSKVKE, SLPQNIPPLTQTPVVPPFL QPEVMGVSKVKE	ACE-inhibitory
		LSSLQSKVLPVPQKAVPYP EVM(+15.99)GVSKVKEAM (+15.99)APKH, EVMGVSKVKEAM(+15.99)	Antioxidant
			Antimicrobial

	APKH, EVMGVSKVKEAMAPKH	
	VLPVPQKA	Antioxidant
		Antimicrobial
		ACE-inhibitory
		Wound healing
		Osteoanabolic
		anti-apoptotic effect
		Anti-inflammatory
	YQEPVLGPVRGP	Cytomodulatory
		Antimicrobial
		ACE-inhibitory
		Immunomodulatory
		Antithrombotic
		Antioxidant
		Anti-inflammatory
	M(+15.99)PFPKYPV, MPFPKYPV	ACE-inhibitory
	LYQEPVLGPVR	ACE-inhibitory
		Immunomodulatory
		Antithrombotic
		Antioxidant
		Anti-inflammatory
	FLLYQEPVLGPVRGP	Antimicrobial
		ACE-inhibitory
	LLYQEPVLGPVRGPF	Antimicrobial
		ACE-inhibitory
	VLGPVRGPFPIV	ACE-inhibitory
	IEKFQS(+79.97)EEQQQTE DELQDKIHP, IEKFQSEEQQTEDELQDK IHP	Promote calcium uptake
	LYQEPVLGPVRGPFPI	immunomodulatory
		antithrombin
		Antimicrobial
		ACE-inhibitory
	EKFQSEEQQT(+79.97)ED ELQDKIHPF, EKFQSEEQQTEDELQDKI HPF	Promote calcium uptake
	IPPLTQTPVVPPFLQPE	ACE-inhibitory
	VM(+15.99)GVSKVKEAM(+15.99)APKH,	Antimicrobial

	VM(+15.99)GVSKVKEAMA PKH	
	SLS(+79.97)S(+79.97)S(+79. 97)EESITRIN, SLSSEESITRIN, SLS(+79.97)SS(+79.97)EESI TRIN	Antimicrobial
	QKAVPYPQRDM(+15.99)PI QAF	Antimicrobial
	PQNIPPLTQTPVVVPPFLQ PEVM(+15.99)GVSKVKE, PQNIPPLTQTPVVVPPFLQ PEVMGVSKVKE	ACE-inhibitory
	KAVPYPQRDM(+15.99)PIQ AF, KAVPYPQRDMPIQAF	Antimicrobial
	SLSSEESITR, SLSS(+79.97)SEESITR, SLS(+79.97)S(+79.97)SEESI TR	Antimicrobial
	TDVENLHLPLP	ACE-inhibitory Antimicrobial
	HQPLPPTVM(+15.99)FPPQ SV, HQPLPPTVMFPPQSV	Anti-inflammatory ACE-inhibitory
	PVLGPVRGPFPIIV	immunomodulatory antithrombin Antimicrobial ACE-inhibitory
	KYPVEPFTESQSL	ACE-inhibitory
	FPKYVVEPF	ACE-inhibitory Antioxidant
	RELEELNVPGEIVESLSSSE ES	Caseinophosphopeptid e Immunomodulatory promotes calcium uptake
	VENLHLPLPLLQ	ACE-inhibitory Antimicrobial
	KFQSEEQQTEDELQDKI HP, KFQS(+79.97)EEQQQTEDE LQDKIHP	Promote calcium uptake
	SQSKVLPVP	ACE-inhibitory
	LYQEPVLGPV	Antioxidant

			ACE-inhibitory
			Immunomodulatory
			Antithrombotic
			Anti-inflammatory
		KHKEM(+15.99)PFPKYPVE PFTESQS, KHKEMPFPKYPVEPFTES QS	Antioxidant
		EKFQSEEQQQTEDELQDK, EKFQS(+79.97)EEQQQTED ELQDK	Promote calcium uptake
		LYQEPVLGPVRGP	Antimicrobial
			ACE-inhibitory
			Anti-inflammatory
		EAM(+15.99)APKHKEM(+1 5.99)PFPKYPVEPFTESQS	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
			Opioid
			increases mMuc4 expression
			increase small intestinal goblet cell density
			Increase MUC2 expression
		LPVPQKA	Antioxidant
			Antimicrobial
			ACE-inhibitory
			Wound healing
			Osteoanabolic
			anti-apoptotic effect
		RELEELNV	Antimicrobial
		QPHQPLPPT	ACE-inhibitory
		KVKEAMAPKH, KVKEAM(+15.99)APKH	Antioxidant
			Antimicrobial
		VYFPFGPIP	prolyl endopeptidase-inhibito ry

			PEP-inhibitory
			prolyl endopeptidase-inhibitory
			DPP-IV Inhibitory
			ACE-inhibitory
			Antioxidant
			anti-anxiety
		QS(+79.97)EEQQQTEDELQD, QSEEQQTEDELQD	Promote calcium uptake
		M(+15.99)PFPKYPVEPFT, MPFPKYPVEPFT	ACE-inhibitory
		DELQDKIHPF	Antimicrobial
		SS(+79.97)EESITRI, SSEESITRI	Antimicrobial
		LLYQEPVLPVVR	ACE-inhibitory
			Immunomodulatory
			Antithrombotic
			Antioxidant
			Anti-inflammatory
		QEPVLPV	Antioxidant
			ACE-inhibitory
			Immunomodulatory
			Antithrombotic
			Antioxidant
			Anti-inflammatory
		IPPLTQTPV	ACE-inhibitory
		YFPFGPIPNS	prolyl endopeptidase-inhibitory
			PEP-inhibitory
			DPP-IV Inhibitory
			ACE-inhibitory
			Antioxidant
			anti-anxiety
			IPPLTQTPVVV
		VVPPFLQPEV	Antimicrobial
		PFPKYPVEPFTESQS	ACE-inhibitory
		SQSKVLPVPQKAVPYP	Antioxidant
		EDELQDKIHPFAQTQSLV YFPFGPIPNS	ACE-inhibitory
		SKVKEAM(+15.99)APKHKEM(+15.99)PFPKYPVEPFT	protective effects in

		E, SKVKEAM(+15.99)APKHK EMPFKYPVEPFTE	indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
		Opioid	
		increases mMuc4 expression	
		increase small intestinal goblet cell density	
		Increase MUC2 expression	
		MHQPHQPLPPTVMFPPQS V, M(+15.99)HQPHQPLPPTV M(+15.99)FPPQSV, MHQPHQPLPPTVM(+15.99))FPPQSV	Anti-inflammatory
			ACE-inhibitory
		YQEPVLPVR	Cytomodulatory
			Antioxidant
			ACE-inhibitory
			Immunomodulatory
			Antithrombotic
			Anti-inflammatory
		KYPVEPFTEQS	ACE-inhibitory
		LYQEPVLPVVRGPF	Antimicrobial
		QKAVPYPQRDM(+15.99)PI QA, QKAVPYPQRDMPIQA	Antimicrobial
		S(+79.97)EEQQQTEDELQD KIHPF, SEEQQQTEDELQDKIHPF	Promote calcium uptake
		NLHLPLLLQ	ACE-inhibitory
		QSEEQQQTEDELQDKIHP	Promote calcium uptake
		LYQEPVLPVVRGPFPIIV	immunomodulatory
antithrombin			
Antimicrobial			
	ACE-inhibitory		
LYQEPVLPVVRGPFPII	immunomodulatory		
	antithrombin		
	Antimicrobial		

			ACE-inhibitory
		VPYPQR	Antioxidant
			DPP-IV Inhibitory
			Antimicrobial
			ACE-inhibitory
		SQSKVLPVPQKAVP	Antioxidant
		YQEPVLGPV	Antioxidant
			ACE-inhibitory
			Immunomodulatory
			Antithrombotic
			Antioxidant
			Anti-inflammatory
		SLSQSKVLPVPQKAVP	Antioxidant
		HKEM(+15.99)PFPKY PVEP FTESQSLTL, HKEM PFPKY PVEPFTESQ LTL	Antioxidant
		EEQQQTEDELQDKIH	Promote calcium uptake
		TQTPVVVPPFLQPE	Antioxidant
		DVENLHLPLPL	ACE-inhibitory
			Antimicrobial
		TEDELQDKIHPF	Antimicrobial
		VRGPFPII	ACE-inhibitory
		LSQSKVLPVP	ACE-inhibitory
		HQPHQPLPPT	Anti-inflammatory
			ACE-inhibitory
		SKVLPVPQK	Antioxidant
			Anti-inflammatory
			ACE-inhibitory
			ACE-inhibitory
		DKIHPFA	ACE-inhibitory
		DVENLHLPL	Antimicrobial
		QTPVVVPPFLQPE	Antioxidant
			Antimicrobial
			ACE-inhibitory
		KFQS(+79.97)EEQQQTEDE LQDKIHPFAQ, KFQSEEQQTEDELQDKI HPFAQ	Promote calcium uptake
		QRDM(+15.99)PIQAF	ACE-inhibitory
		EKFQSEEQQTEDELQ	Promote calcium uptake

		SKVLPVPQKA	Antioxidant
			Anti-inflammatory
			ACE-inhibitory
		EEQQQTEDELQDKIHP	Promote calcium uptake
		SLPQNIPPLTQTPVVVPPFL QPEVM(+15.99)GVSKVK, SLPQNIPPLTQTPVVVPPFL QPEVMGVSKVK	ACE-inhibitory
		M(+15.99)APKHKEMPFPK YPVEPFOTESQ, M(+15.99)APKHKEM(+15.9 9)PFPKYPVEPFOTESQ, MAPKHKEMPFPKYPVEPF TESQ	Antioxidant
		YPVEPFOTESQSLTL	ACE-inhibitory
		VSKVKEAM(+15.99)APKH KEM(+15.99)PFPKYPVEPF TESQSLT	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
			Opioid
			increases mMuc4 expression
			increase small intestinal goblet cell density
			Increase MUC2 expression
		QPHQPLPPTVM(+15.99)FP PQSVL, QPHQPLPPTVMFPPQSVL	Anti-inflammatory
			ACE-inhibitory
LPVPQKAVPYPQRD	Antimicrobial		
GVSKVKEAM(+15.99)APK HKEM(+15.99), GVSKVKEAMAPKHKEM(+ 15.99)	Antimicrobial		
M(+15.99)GVSKVKEAM(+1 5.99)APK	Antimicrobial		
EEQQQTEDELQDKIHPFA Q	Promote calcium uptake		

		VLGPVRGPF	Cytomodulatory
			ACE-inhibitory
		VPYPQRDM(+15.99)PIQAFLL, VPYPQRDMPIQAFLL	Antimicrobial
		HKEM(+15.99)PFPKYVPEPFTE, HKEMPFPKYVPEPFTE	Antioxidant
		QSKVLPVPQKA	ACE-inhibitory
		ENLHLPLPLLQ	ACE-inhibitory
			Antimicrobial
		VLPVPQKAVPYPQRD	Antimicrobial
		PVVVPFLQPEV	Antimicrobial
			ACE-inhibitory
		TDVENLHLPLPL	ACE-inhibitory
			Antimicrobial
		QSKVLPVPQK	Antioxidant
			Anti-inflammatory
			ACE-inhibitory
		EMFPKYVPEP, EM(+15.99)PFPKYVPEP	ACE-inhibitory
		VLSLSQSKVLPVPQKAVPYP	Antioxidant
		LEELNVPGEIV	Antimicrobial
		SLVYFPFGPIPNSLP	ACE-inhibitory
		ENLHLPLPLL	ACE-inhibitory
			Antimicrobial
		TLTDVENLHL	ACE-inhibitory
		KEM(+15.99)PFPKYVPEPFTES, KEMPFPKYVPEPFTES	Antioxidant
		PQNIPPLTQTPVVPPFL	ACE-inhibitory
		APKHKEM(+15.99)PFPKYVPEPFTESQS, APKHKEMPFPKYVPEPFTESQS	Antioxidant
		MPFPKY	Increase MUC4 expression
			Bradykinin-Potentiating
			Antimicrobial
			ACE-inhibitory
		TEDELQDKIHP	Antimicrobial
GVSKVKEAM(+15.99)APK	protective effects		

		HKEM(+15.99)PFPKYVPEPFTES, GVSKVKEAM(+15.99)APKHKEMPFKYPVEPFTES, GVSKVKEAMAPKHKEMPFPKYVPEPFTES	in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
			Opioid
			increases mMuc4 expression
			increase small intestinal goblet cell density
			Increase MUC2 expression
		SEEQQQTEDELQDKIH	Promote calcium uptake
		TDVENLHLPL	ACE-inhibitory
			Antimicrobial
		EMPFKYPV, EM(+15.99)PFPKYV	ACE-inhibitory
		VLPVPQKAVPYPQRDMP, VLPVPQKAVPYPQRDM(+15.99)P	Antimicrobial
		SKVLPVPQKAVPYP	Antimicrobial
			Antioxidant
		EPVLPVVRG	Cytomodulatory
			ACE-inhibitory
			Immunomodulatory
			Antithrombotic
			Antioxidant
		EDELQDKIHPFA	Anti-inflammatory
LLYQEPVLPVVRGPF	Antimicrobial		
	immunomodulatory		
	antithrombin		
	ACE-inhibitory		
HQPHQPLPP	ACE-inhibitory		
KEAMAPKHK, KEAM(+15.99)APKHK	Antimicrobial		
KVLPVPQKAV	Antioxidant		
	Anti-inflammatory		
SKVKEAM(+15.99)APKHK	protective effects		

		EM(+15.99)PFPKYPVEPFT ESQSLTLTDV	in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
			Opioid
			increases mMuc4 expression
			increase small intestinal goblet cell density
			Increase MUC2 expression
		SLVYFPFGPIPNSLPQN	ACE-inhibitory
		EKFQSEEQQQTEDELQDKI HPFAQ	Promote calcium uptake
		EELNVPGEIVESLSSEESI TR, EELNVPGEIVESLS(+79.97) SSEESITR	Caseinophosphopeptid e Immunomodulatory promotes calcium uptake
		KFQS(+79.97)EEQQQTEDE L, KfqseeqqqteDEL	Promote calcium uptake
		NLHLPLPLL	ACE-inhibitory
		LPVPQKAVPYPQRDM, LPVPQKAVPYPQRDM(+15 .99)	Antimicrobial
		EDELQDKIHP	Antimicrobial
		WM(+15.99)HQPHQLPPT VMFPPQSV, WMHQPHQLPPTVMFPPQ SV, WM(+15.99)HQPHQLPPT VM(+15.99)FPPQSV	Anti-inflammatory ACE-inhibitory
		LGPVRGPFPII	ACE-inhibitory
		QNIPPLTQTPVVVPPFLQP EV	ACE-inhibitory
PKYPVEPFTESQSL	ACE-inhibitory		
KEM(+15.99)PFPKYPVEP, KEMFPKYPVEP	ACE-inhibitory		
LSQSKVLPVPQ	ACE-inhibitory		
SVLSLSQSKVLPVPQ	ACE-inhibitory		

	LSQSKVLPVPQKAVPYPQR	Antioxidant
	APKHKEMPFPKYPVEPFTESQ, APKHKEM(+15.99)PFPKYPVEPFTESQ	Antioxidant
	FQS(+79.97)EEQQQTEDEL	Promote calcium uptake
	VYPPFGPIPNSL	Antioxidant
		ACE-inhibitory
		anti-anxiety
	EELNVPGEIVE	ACE-inhibitory
		Antimicrobial
	VENLHLPLPL	ACE-inhibitory
		Antimicrobial
	QNIPPLTQTPVVVPPFLQPEVM(+15.99)GV	ACE-inhibitory
	KIHPFAQTQS	prolyl endopeptidase-inhibitory
		PEP-inhibitory
		ACE-inhibitory
	VENLHLPLPLL	ACE-inhibitory
		Antimicrobial
	LHLPLPLLQ	ACE-inhibitory
	LSLSQSKVLPVPQKAVP	Antioxidant
	GVSKVKEAM(+15.99)APKHKEM(+15.99)PFPKYPVEPFTESQSLTL	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
		Opioid
		increases mMuc4 expression
		increase small intestinal goblet cell density
		Increase MUC2 expression
	KIHPFAQT	prolyl

			endopeptidase-inhibitory
			PEP-inhibitory
		IPPLTQTPVVVPPFLQPEVM(+15.99), IPPLTQTPVVVPPFLQPEVM	ACE-inhibitory
		MAPKHKEMPFPKYPVEPFTES, M(+15.99)APKHKEMPFPKYPVEPFTES	Antioxidant
		TPVVVPPFLQP	Antimicrobial
			ACE-inhibitory
		VKEAM(+15.99)APKHKEM(+15.99)PFPKYPVEPFTES	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
			Opioid
			increases mMuc4 expression
			increase small intestinal goblet cell density
			Increase MUC2 expression
		LPVPQKAVPYPQ	Antimicrobial
		PVVVPPFLQPEVM(+15.99)	Antimicrobial
		LSQSKVLPVPQKAVPYPQRD	Antioxidant
		HKEMPFPKYP, HKEM(+15.99)PFPKYP	Antimicrobial
		SQSKVLPV	ACE-inhibitory
		SLPQNIPPLTQTPVVVPPFLQPEVM(+15.99)	ACE-inhibitory
		LPQNIPPLT	DPP-IV Inhibitory
		PVLGPVRGPFPI	Antimicrobial
			ACE-inhibitory
		YPFPGPIPNSLPQNIPPLTQ	ACE-inhibitory
		QSKVLPVPQKAVPYP	Antimicrobial

			Antioxidant
		VYFPFGPIPNSLP	ACE-inhibitory
		YFPFGPIP	satiety
			reduces pancreas MDA level
			Opioid
			Increases MUC5A expression
			Increases MUC3 expression
			Increases MUC2 expression
			Increases jejunal mucus secretion
			immunomodulatory
			Anxiolytic
			Anticancer
			ACE-inhibitory
			Immunomodulatory
			Antioxidant
			prolyl endopeptidase-inhibitory
			PEP-inhibitory
			prolyl endopeptidase-inhibitory
			PEP-inhibitory
		DPP-IV Inhibitory	
		anti-anxiety	
		KVLPVPQK	Antioxidant
			Antimicrobial
			ACE-inhibitory
			Wound healing
			Osteoanabolic
			anti-apoptotic effect
			Anti-inflammatory
		FPPQSVLSLSQSKVLPVPQ	ACE-inhibitory
		QNIPPLTQTPV	ACE-inhibitory
		PFPKYVPEP	ACE-inhibitory
			Antioxidant
		TPVVVPPFLQPEVM(+15.99)G	Antioxidant

		QPHQLPPTVM(+15.99)FP PQSV, QPHQLPPTVMFPPQSV	Anti-inflammatory ACE-inhibitory
		NLHLPLPLLQS	ACE-inhibitory
		KFQSEEQQTEDELQ, KFQS(+79.97)EEQQTEDE LQ	Promote calcium uptake
		LPQNIPPLTQTPVVVPP	ACE-inhibitory
		DKIHPF	ACE-inhibitory
		EELNVPGEIVESLS(+79.97) S(+79.97)SEESITRINK	Caseinophosphopeptide
			Immunomodulatory
			promotes calcium uptake
		SLVYFPFGPIPNSL	ACE-inhibitory
		QNIPPLTQTPVVVPPFLQP EVM(+15.99)GVSKVKE	ACE-inhibitory
		GVSKVKEAM(+15.99)APK HKEM(+15.99)PFPKYVPEP FT	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
			Opioid
			increases mMuc4 expression
			increase small intestinal goblet cell density
			Increase MUC2 expression
		LGPVRGPFPI	ACE-inhibitory
PVRGPFPI	ACE-inhibitory		
GVSKVKEAM(+15.99)APK HKEMPFKYVPEPFTE, GVSKVKEAM(+15.99)APK HKEM(+15.99)PFPKYVPEP FTE	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing		
	Opioid		

			increases mMuc4 expression
			increase small intestinal goblet cell density
			Increase MUC2 expression
		TEDELQDKIHPFAQT	Antimicrobial
		LLYQEPVLGP	Antioxidant
			ACE-inhibitory
			Immunomodulatory
			Antithrombotic
			Anti-inflammatory
		FPPQSVLSLSQSKVLPVP	ACE-inhibitory
		KEMPFPKY, KEM(+15.99)PFPKY	Antimicrobial
		LLYQEPVLGPVVRGPFPIIV	immunomodulatory
			antithrombin
			Antimicrobial
			ACE-inhibitory
		SS(+79.97)SEESITRI, SS(+79.97)S(+79.97)EESITRI, SSSEESITRI	Antimicrobial
		DVENLHLPLPLL	ACE-inhibitory
			Antimicrobial
		LSQSKVLPV	ACE-inhibitory
		QKAVPYPQRDM(+15.99)PI QAFL, QKAVPYPQRDMPIQAFL	Antimicrobial
		VENLHLPLPLLQS	ACE-inhibitory
		ENLHLPLP	ACE-inhibitory
		IPPLTQTPVVPPF	ACE-inhibitory
		SLPQNIPPLTQTPVVPPFL QPEV	ACE-inhibitory
		PVPQKAVPYPQRD	Antimicrobial
		ELNVPGEIV	ACE-inhibitory
			Antimicrobial
		LPQNIPPLTQTPVVPPFL QPEVM(+15.99)GV	ACE-inhibitory
		PVPQKAVPYPQR	Antimicrobial
		LPQNIPPLTQTPVVPPF	ACE-inhibitory
		EELNVPGEIVESL	Antimicrobial
		QSKVLPVPQKAVPYPQRD	Antioxidant

	MP	
	SKVLPVPQKAVPYPQ	Antimicrobial
		Antioxidant
	LVYFPFGPIPNSL	ACE-inhibitory
	S(+79.97)EEQQQTEDELQDKIHPFA	Promote calcium uptake
	SLPQNIPPLTQTPVVVPPFLQPEVM(+15.99)G	ACE-inhibitory
	HQPHQPLPPTVM(+15.99)FPPQ,	Anti-inflammatory
	HQPHQPLPPTVMFPPQ	ACE-inhibitory
	QS(+79.97)EEQQQTEDELQDKIHPFAQTQ,	Promote calcium uptake
	QSEEQQTEDELQDKIHPFAQTQ	
	EKFQSEEQQTEDELQDKIHP	Promote calcium uptake
	S(+79.97)EEQQQTEDELQDKIHPFAQT	Promote calcium uptake
	VEPFTESQSLTL	ACE-inhibitory
	FPKYVVEPFTESQSLTL	ACE-inhibitory
	QPHQPLPPTVM(+15.99)FP	Anti-inflammatory
	PQS,	ACE-inhibitory
	QPHQPLPPTVMFPPQS	
	EELNVPGEIV	ACE-inhibitory
		Antimicrobial
	KVLPVPQKAVPYPQ	Antimicrobial
		Antioxidant
	EKFQSEEQQTEDELQDKIH	Promote calcium uptake
	TDVENLHLPLPLL	ACE-inhibitory
		Antimicrobial
	VSKVKEAM(+15.99)APKH	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
	KEMPPKYVVEPFTESQS	Opioid
		increases mMuc4 expression

			increase small intestinal goblet cell density
			Increase MUC2 expression
		KAVPYPQRDM(+15.99)PIQ AFL	Antimicrobial
		SLVYFPFGPIPNSLPQ	ACE-inhibitory
		EKFQS(+79.97)EEQQQTEDEL, EKFQSEEQQQTEDEL	Promote calcium uptake
		PQNIPPLTQTPVVVPPFLQ PEVM(+15.99)	ACE-inhibitory
		QQTEDELQDKIHP	Antimicrobial
		TEDELQDKIH	Antimicrobial
		YPFPGPIPNSLPQNI	ACE-inhibitory
		NSLPQNIPPLTQTPVVVPPFLQPEVM(+15.99)GVSKV KE	ACE-inhibitory
		VM(+15.99)GVSKVKEAM(+15.99)AP	Antimicrobial
		PQNIPPLTQTPVVVPPFLQ PEVM(+15.99)G	ACE-inhibitory
		QPHQPLPPTV	ACE-inhibitory
		SLPQNIPPLTQTPVVVPPFLQPEVM(+15.99)GVS	ACE-inhibitory
		PVEPFTESQSLTL	ACE-inhibitory
		QEPVLGPVRG	Cytomodulatory
			ACE-inhibitory
			Immunomodulatory
			Antithrombotic
			Antioxidant
		QTPVVVPPFLQPEVM(+15.99)	Anti-inflammatory
		PVVVPPFLQPE	Antioxidant
			Antimicrobial
		KFQS(+79.97)EEQQQTEDELQDKIH, KfqseeqqqteDELQDKIH	ACE-inhibitory
		KVLVPVQKAVPYPQR	Promote calcium uptake
			Antimicrobial
		SWMHQPHQPLPPTVM(+15	Antioxidant
			Anti-inflammatory

	.99)FPPQS, SWM(+15.99)HQPHQPLPPT VM(+15.99)FPPQS, SWMHQPHQPLPPTVMFPP QS	ACE-inhibitory
	QSEEQQTTEDELQDKIH	Promote calcium uptake
	WM(+15.99)HQPHQPLPPT VM(+15.99)FPPQS, WMHQPHQPLPPTVM(+15. 99)FPPQS	Anti-inflammatory ACE-inhibitory
	TEDELQDKIHPFAQ	Antimicrobial
	PQNIPPLTQTPVVPPFLQ PEVMGVSKVKEA	ACE-inhibitory
	KHKEMPFKYPVEPFTES QSL	Antioxidant
	ENLHLPLLLQS	ACE-inhibitory
	IPPLTQTPVVPPFL	ACE-inhibitory
	PQNIPPLTQTPVVPPFLQ PEVM(+15.99)GVSKV	ACE-inhibitory
	KVLPVPQKAVPYPQRD	Antimicrobial Antioxidant
	YPPFGPIPNSLP	Antimicrobial ACE-inhibitory anti-anxiety
	QPHQPLPPTVM(+15.99)FP PQ, QPHQPLPPTVMFPPQ	Anti-inflammatory ACE-inhibitory
	KYPVEPFTESQSLT	ACE-inhibitory
	EELNVPGEIVESLSSSEESI T, EELNVPGEIVESLSS(+79.9 7)SEESIT	Caseinophosphopeptid e Immunomodulatory promotes calcium uptake
	QS(+79.97)EEQQQTEDELQ	Promote calcium uptake
	KAVPYPQR	Antioxidant Antimicrobial ACE-inhibitory
	AVPYPQRDMPIQAFLL, AVPYPQRDM(+15.99)PIQA FLL	Antimicrobial
	VVVPFLQPEVM(+15.99)	Antimicrobial
	EEQQQTEDELQDKIHPF	Promote calcium uptake

			uptake
		PQNIPPLTQTPVVVPPFLQ PEVM(+15.99)GVS	ACE-inhibitory
		QQQTEDELQDKIHPF	Antimicrobial
		EAM(+15.99)APKHKEM(+15.99)PFPKY PVEPFTE SQ	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
			Opioid
			increases mMuc4 expression
			increase small intestinal goblet cell density
			Increase MUC2 expression
		LLYQEPVLGPVRGPFPII	immunomodulatory
			antithrombin
			Antimicrobial
			ACE-inhibitory
		YPPFGPIPNSLPQNIPPLTQT	ACE-inhibitory
		LTDVENLHLPLPL	Antimicrobial
		LNVPGEIVESLS(+79.97)SS(+79.97)EESITR	Caseinophosphopeptide
			Immunomodulatory promotes calcium uptake
		KEM(+15.99)PFPKY PVEPFTE	Antioxidant
		LTDVENLHL	ACE-inhibitory
		PVRGPFPII	ACE-inhibitory
		M(+15.99)PFPKY PVE	ACE-inhibitory
		EM(+15.99)PFPKY, EMPFPKY	Increase MUC4 expression
			Bradykinin-Potentiating
			Antimicrobial
			ACE-inhibitory

	VEPFTESQSLTLTD	ACE-inhibitory
	PFPKY PVEPFT	ACE-inhibitory
		Antioxidant
	QSKVLPVPQKAVPYPQ	Antimicrobial
		Antioxidant
	SQSKVLPVPQKAVPY	Antioxidant
	YFPFGPIPNSLPQNIPPLT	ACE-inhibitory
	QTEDELQDKIHP	Antimicrobial
	KEAM(+15.99)APKHKEM(+15.99)PFPKY PVEPFTESQSLTL	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
		Opioid
		increases mMuc4 expression
		increase small intestinal goblet cell density
		Increase MUC2 expression
	QTPVVVPPFLQPEVM(+15.99)G	Antioxidant
	ENLHLPLPL	ACE-inhibitory
		Antimicrobial
	YFPFGPIPNSLPQ	Antimicrobial
		ACE-inhibitory
	NSLPQNIPPLTQTPVVVPPFLQPEVM(+15.99)GVS	ACE-inhibitory
	KEM(+15.99)PFPKY PV	ACE-inhibitory
	SLPQNIPPLT	DPP-IV Inhibitory
	QTEDELQDKIHPF	Antimicrobial
	ELNVPGEIVE	ACE-inhibitory
		Antioxidant
		Antimicrobial
	LPQNIPPLTQTPVVVPPFLQPEVM(+15.99)	ACE-inhibitory
	HQPHQPLPPTVMFPPQSVL	Anti-inflammatory
	HQPHQPLPPTVM(+15.99)F	ACE-inhibitory

	PPQSVL	
	NSLPQNIPPLTQTPVVVPP FLQPEVM(+15.99)	ACE-inhibitory
	ELNVPGEIVESL	Antioxidant
		Antimicrobial
	HKEM(+15.99)PFPKY	Antimicrobial
	FLLYQEPVLPVVR	Anti-inflammatory
		ACE-inhibitory
	YPVEPFTESQSLTLTDV	ACE-inhibitory
	YFPFGPIPNSLPQN	ACE-inhibitory
	HQPHQPLPPTVM(+15.99)F PPQSVLS, HQPHQPLPPTVMFPPQSVL S	Anti-inflammatory
		ACE-inhibitory
	PPLTQTPVVVPPFLQPEV	ACE-inhibitory
	PFPKYPVEPFTESQSLT	ACE-inhibitory
	IPPLTQTPVVVPPFLQ	ACE-inhibitory
	SVLSLSQSKVLPVPQK	ACE-inhibitory
	IPPLTQTPVV	ACE-inhibitory
	VYFPFGPIPNSLPQN	ACE-inhibitory
	KEM(+15.99)PFPKYPVEPF TESQSLTL	Antioxidant
	LTDVENLHLPLP	Antimicrobial
	KHKEM(+15.99)PFP	Antimicrobial
	EDELQDKIHFAQ	Antimicrobial
	VYFPFGPIPNSLPQ	ACE-inhibitory
	PPQSVLSLSQSKVLPVPQK AVP	ACE-inhibitory
	KYPVEPFTESQSLTLTD	ACE-inhibitory
	LSQSKVLPVPQKAVPYPQ	Antioxidant
	M(+15.99)HQPHQPLPPTV M(+15.99)FPPQS	Anti-inflammatory
		ACE-inhibitory
	QPHQPLPPTVM(+15.99)FP P, QPHQPLPPTVMFPP	Anti-inflammatory
		ACE-inhibitory
	LVYFPFGPIPNSLPQN	ACE-inhibitory
	PPLTQTPVVV	ACE-inhibitory
	LPQNIPPLTQ	DPP-IV Inhibitory
	PVLGPVRGFPF	Cytomodulatory
		ACE-inhibitory
	PPLTQTPVVVPPFL	ACE-inhibitory
	M(+15.99)HQPHQPLPPTV M(+15.99)FPPQ	Anti-inflammatory
		ACE-inhibitory
	KKIEKFQSEEQQQTEDELQ	Promote calcium

	DKIHFP	uptake
	LVYFPFGPIPNSLP	ACE-inhibitory
	APKHKEMPFKYPVEPFT	Antioxidant
	SKVLPVPQKAVPYPQRD	Antimicrobial
		Antioxidant
	LVYFPFGPIPNSLPQNIPPL TQT	ACE-inhibitory
	TPVVVPPFLQ	Antimicrobial
		ACE-inhibitory
	TQSLVYFPFGPIPNSLP	ACE-inhibitory
	IEKFQSEEQQTDELQDK I	Promote calcium uptake
	KVLPVPQKAVPYP	Antimicrobial
	KHKEM(+15.99)PFKYPVE PFTESQ	Antioxidant
	VYFPFGPIPNS	prolyl endopeptidase-inhibitory
		PEP-inhibitory
		DPP-IV Inhibitory
		ACE-inhibitory
		Antioxidant
		ACE-inhibitory
		anti-anxiety
	FPGPIPNSLPQNIPP	ACE-inhibitory
	HKEM(+15.99)PFKYPVEP FT	Antioxidant
	HQPHQPLPPTVM(+15.99) FPP	Anti-inflammatory
		ACE-inhibitory
	SLSQSKVLPVPQKAVPY	Antioxidant
	RELEELNVPGEIVESLSSE	Caseinophosphopeptide
		Immunomodulatory
		promotes calcium uptake
	ELEELNVPGEIVESLSSEE S	Caseinophosphopeptide
		Immunomodulatory
		promotes calcium uptake
	FPFGPIPNSLPQNIPPLTQT	ACE-inhibitory
	FPGPIPNSLPQNIPPL	ACE-inhibitory
	QNIPPLTQTPVVVPPFLQP	ACE-inhibitory

	EVM(+15.99)GVSKV	
	NLHLPLPL	ACE-inhibitory
	VYFPFGPIPNSLPQNIPPLT	ACE-inhibitory
	RDMPIQAFL	ACE-inhibitory
	IPPLTQTPVVVPPFLQP	ACE-inhibitory
	PFPKYVVEPFTESQSLTL	ACE-inhibitory
	FPGPIPNSLPQNIPPLTQ	ACE-inhibitory
	SWMHQPHQPLPPT	Antioxidant
		Anti-inflammatory
		ACE-inhibitory
	QRDMPIQAFL	ACE-inhibitory
	AMAPKHK	Antimicrobial
	VVVPPFLQP	Antimicrobial
		ACE-inhibitory
	WMHQPHQPLPPT	Antioxidant
		Anti-inflammatory
		ACE-inhibitory
	M(+15.99)HQPHQPLPPTV	Anti-inflammatory
	M(+15.99)FPPQSVL	ACE-inhibitory
	SLVYFPFGPIPNSLPQNIPP	ACE-inhibitory
	SKVKEAM(+15.99)APKHK EMPFPKYVVEPFTERQ, SKVKEAM(+15.99)APKHK EM(+15.99)PFPKYVVEPFT ERQ, SKVKEAMAPKHKEMPFP KYPVEPFTERQ	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
		Opioid
		increases mMuc4 expression
		increase small intestinal goblet cell density
		Increase MUC2 expression
	YFPFGPIHN	DPP-IV Inhibitory
		ACE-inhibitory
		Antioxidant
		anti-anxiety
	VYFPFGPIHN	prolyl endopeptidase-inhibito ry

			PEP-inhibitory
			prolyl endopeptidase-inhibitory
			DPP-IV Inhibitory
			ACE-inhibitory
			Antioxidant
			anti-anxiety
		GVSKVKEAM(+15.99)APK HKEM(+15.99)PFPKYPVEP FTERQ	protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing
			Opioid
			increases mMuc4 expression
			increase small intestinal goblet cell density
			Increase MUC2 expression
		LVYFPFGPIHN	Antioxidant
			ACE-inhibitory
		YFPFGPIH	satiety
			reduces pancreas MDA level
			Opioid
			Increases MUC5A expression
			Increases MUC3 expression
			Increases MUC2 expression
			Increases jejunal mucus secretion
			immunomodulatory
			Anxiolytic
			Anticancer
			ACE-inhibitory
			Antioxidant

			prolyl endopeptidase-inhibito ry
			PEP-inhibitory
			Antioxidant
		SLVYFPFGPIHNSLPQ	ACE-inhibitory
		HNSLPQNIPPLTQTPVVVP PFLQPEV	ACE-inhibitory
		FPGPIHN	DPP-IV Inhibitory
		HNSLPQNIPPLTQTPVVVP PFLQPEVM(+15.99)GVS	ACE-inhibitory
		SLVYFPFGPIHNSLPQN	ACE-inhibitory
		IHNSLPQNIPPLTQTPVVVP PFLQPEVM(+15.99)GVS	ACE-inhibitory
		SLVYFPFGPIH	ACE-inhibitory
		HNSLPQNIPPLTQTPVVVP PFLQPEVM(+15.99)G	ACE-inhibitory
		YFPFGPIHNSLPQNIPP	ACE-inhibitory
		VYFPFGPIH	prolyl endopeptidase-inhibito ry
			PEP-inhibitory
			Antioxidant
			ACE-inhibitory
		HNSLPQNIPPLTQTPVVVP PFLQPEVM(+15.99)	ACE-inhibitory
IHNSLPQNIPPLTQTPVVVP PFLQPEV	ACE-inhibitory		
YFPFGPIHNSLPQNI	ACE-inhibitory		
P02668;A0A140 T8A9	CSN3	NQFLPYPHYAKPAAV	Antioxidant
		NNQFLPYPHYAKPAA	Antioxidant
		YQQKPVA	Antimicrobial ACE-inhibitory
		NQFLPYPHYAKPA	Antioxidant
		SDKIAKY	Antimicrobial ACE-inhibitory
		NQFLPYPHYAKPAA	Antioxidant
		NYYQQKPVA	Antimicrobial
		ALINNQFLPYPHYAKPAA	Antioxidant
		LSRYPSY	Opioid
		NNQFLPYPHYAKPA	Antioxidant
		YYQQKPVA	Antimicrobial
		INNQFLPYPHYAKPA	Antioxidant

		ARHPHPLSF	ACE-inhibitory
			Osteoanabolic
			Antioxidant
		NQFLPYPYYAKP	Antioxidant
		INNQLPYPYYAKPAA	Antioxidant
		LINNQLPYPYYAKPAAV	Antioxidant
		AKYIPIQYV	Antioxidant
		QFLPYPYYAKPAAV	Antioxidant
		HPHPHLS	ACE-inhibitory
			Osteoanabolic
		FFSDKIA	Antimicrobial
			ACE-inhibitory
		NNQLPYPYYAKP	Antioxidant
		IPPKNQDKTEIPTINTI	Antimicrobial
		YIPIQYV	ACE-inhibitory
		ARHPHPLS	Antioxidant
		NNQLPYPYYAKPAAV	Antioxidant
		NQFLPYPYYAKPAAVR	Antioxidant
		INNQLPYPYYAKP	Antioxidant
		NNQLPYPYYAKPAAVR	Antioxidant
		ALINNQLPYP	DPP-IV Inhibitory
		INNQLPYP	DPP-IV Inhibitory
		RHPHPHLS	ACE-inhibitory
			Osteoanabolic
			Antioxidant
		TMARHPHPHLS, TM(+15.99)ARHPHPHLS	Antioxidant
		YYQQKPV	Antimicrobial
		IAKYIPIQYV	Antioxidant
		INNQLPYPYYAKPAAV	Antioxidant
		KDERFF	ACE-inhibitory
		IPPKNQDKTEIPTINT	Antimicrobial
		LINNQLPYPYYAKPA	Antioxidant
		PPKNQDKTEIPTINTI	Antimicrobial
		NYYQQKPV	Antimicrobial
		SRYPSYGLNY	Opioid
		IPPKNQDKTEIPTIN	Antimicrobial
		INNQLPYPYYAKPAAVR	Antioxidant
		KYIPIQYV	Antioxidant
		QFLPYPYYAKPAA	Antioxidant
		EKDERFF	ACE-inhibitory
YQQKPV	Antimicrobial		
QFLPYPYYAKPAAVR	Antioxidant		

	LINNQFLPYPYYAKP	Antioxidant
	AIPPKKNQDKTEIPTINT	Antimicrobial
	LINNQFLPYPYYAKPAA	Antioxidant
	PPKKNQDKTEIPTINT	Antimicrobial
	KPAAVRSPAQIL	Antimicrobial
	TM(+15.99)ARHPHPLSF, TMARHPHPLSF	Antioxidant
	KPAAVRSPAQI	Antimicrobial
	ALINNQFLPYPYYAKP	Antioxidant
	AVRSPAQILQWQV	Antioxidant
	TVATLEDS(+79.97)PEVIES PPEINT	Antimicrobial
	HPHPHLSF	ACE-inhibitory
		Osteoanabolic
		Antioxidant
	RYPYGLNY	Opioid
	IPPKKNQDKT	ACE-inhibitory
		ameliorates insulin resistance
	TVATLEDS(+79.97)PEVIES PPEINTV	Antimicrobial
	ALINNQFLPYPYYAKPA	Antioxidant
	VRSPAQILQWQ	Antioxidant
	NQFLPYPYYA	DPP-IV Inhibitory
	INNQFLPYPY	DPP-IV Inhibitory
	VLSRYPS	ACE-inhibitory
	RSPAQILQWQ	Antioxidant
	IPPKKNQD	ACE-inhibitory
	PPKKNQDKTEIPTINTIA	Antimicrobial
	AVRSPAQILQWQ	Antimicrobial
		Antioxidant
	AVRSPAQILQ	Antimicrobial
		Antioxidant
	M(+15.99)AIPPKKNQDKTE IPTINT, MAIPPKKNQDKTEIPTINT	Antimicrobial
	DERFF	ACE-inhibitory
	RHPHPHLSF	ACE-inhibitory
		Osteoanabolic
		Antioxidant
	SRYPY	Opioid
		ACE-inhibitory
	M(+15.99)AIPPKKNQDKTE	Antimicrobial

		IPT	
		KPAAVRSPAQILQW	Antimicrobial
		SRYPSTY	Opioid
			ACE-inhibitory
		CEKDERF	ACE-inhibitory
		YYQKPVAL	Antimicrobial
		KPAAVRSPAQILQWQ	Antimicrobial
			Antioxidant
		VRSPAQILQWQV	Antioxidant
		IPIQYVLSRYP	Opioid
			C3a Receptors agonist
P02754	LGB	LIVTQTM(+15.99)K, LIVTQTMK	Cytotoxic
			Antimicrobial
		IDALNENK	Increase cellular growth
			Antimicrobial
		LIVTQTMKG, LIVTQTM(+15.99)KG	Cytotoxic
		EELKPTPEGDL	DPP-IV Inhibitory
			Antioxidant
		IIAEKTKIPA	Antimicrobial
		PEVDDEALEKF	DPP-IV Inhibitory
			Antimicrobial
			Antioxidant
		DISLLDAQSAPLRV	Antimicrobial
		DIQKVAGTWY	DPP-IV Inhibitory
			ACE-inhibitory
			Antimicrobial
		EVDDEALEKF	DPP-IV Inhibitory
			Antimicrobial
		SDISLLDAQSAPLRV	Antimicrobial
		IVTQTMKG, IVTQTM(+15.99)KG	Cytotoxic
			Antimicrobial
		LDIQKVAG	Antimicrobial
			ACE-inhibitory
		IQKVAGTWY	DPP-IV Inhibitory
ACE-inhibitory			
EELKPTPEGDLE	DPP-IV Inhibitory		
	Antimicrobial		
	Antioxidant		
DAQSAPLRV	Antimicrobial		
	ACE-inhibitory		

	RLSFNPT	ACE-inhibitory
	LIVTQTMKGL, LIVTQTM(+15.99)KGL	Cytotoxic
	EELKPTPEGDLEIL	DPP-IV Inhibitory
	ELKPTPEGDLE	DPP-IV Inhibitory
	IIAEKTKIPAVFK	Antimicrobial
	EELKPTPEGDLEILL	DPP-IV Inhibitory
	YVEELKPTPEGDL	Antimicrobial
		Antioxidant
	LDAQSAPLRV	Antimicrobial
		ACE-inhibitory
	TPEVDDEALEKF	DPP-IV Inhibitory
		Antimicrobial
		Antioxidant
	DALNENKV	Increase cellular growth
		Antimicrobial
	VEELKPTPEGDL	Antimicrobial
		Antioxidant
	GLDIQKV	Hypocholesterolemic
		ACE-inhibitory
	ELKPTPEGDL	DPP-IV Inhibitory
	IDALNENKVL	Increase cellular growth
		Antimicrobial
	SDISLLDAQSAPLR	Antimicrobial
	AEKTKIPAVF	Antimicrobial
	GLDIQKVAG	Antimicrobial
		ACE-inhibitory
	EELKPTPEGD	DPP-IV Inhibitory
	RTPEVDDEALEKF, RT(+79.97)PEVDDEALEKF	DPP-IV Inhibitory
		Antimicrobial
	KIIAEKTKIPA	Antimicrobial
	GLDIQKVAGTWY	Antimicrobial
		ACE-inhibitory
	VEELKPTPEGDLEIL	DPP-IV Inhibitory
		Antimicrobial
		Antioxidant
	YVEELKPTPEGDLEIL	Hypocholesterolemic
		Antioxidant
	LKPTPEGDLE	DPP-IV Inhibitory
	VLDTDYK	DPP-IV Inhibitory
		ACE-inhibitory

	ELKPTPEGD	DPP-IV Inhibitory
	DKALKALPM(+15.99)HI	Increase cellular growth
	QSAPLRVYV	ACE-inhibitory
	LKALPM(+15.99)HI	Increase cellular growth
		DPP-IV Inhibitory
		ACE-inhibitory
	DAQSAPLR	Antimicrobial
		ACE-inhibitory
	KPTPEGDLE	DPP-IV Inhibitory
	IDALNENKV	Increase cellular growth
		Antimicrobial
	KPTPEGDLEILL	DPP-IV Inhibitory
	ELKPTPEGDLEIL	DPP-IV Inhibitory
	PEVDDEALEKFD	DPP-IV Inhibitory
		Antimicrobial
	VEELKPTPEGDLEILL	Hypocholesterolemic
	EVDDEALEK	DPP-IV Inhibitory
		Antimicrobial
	YVEELKPTPEGDLE	Antimicrobial
		Antioxidant
	DISLLDAQSAPLR	Antimicrobial
	ELKPTPEGDLEILL	DPP-IV Inhibitory
	LLDAQSAPLRV	ACE-inhibitory