

Supplemental table

Table 1. Amino acid sequences of compounds 1-7

Protein	Amino acid sequence
FGF2	>sp P09038 143-288 PALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRIHPDGRVDGVREKSDPH IKLQLQAEERGCVVSIKGVCANRYLAMKEDGRL LASKCVTDECFFFERLES NNYNTYRSRKYTSWYVALKRTGQYKLGSKTGPGQKAILFLPMSAKS
FGF2 variants	
1	PALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRIHPDGRVDGVREKSDPH IKLQLQAEERGCVVSIKGV A ANRYLAMKEDGRL LASKCVTDECFFFERLES NNYNTYRSRKYTSWYVALKRTGQYKLGSKTGPGQKAILFLPMSAKS
2	PALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRIHPDGRVDGVREKSDPH IKLQLQAEERGCVVSIKGV A VTDECFFFERLES NNYNTYRSRKYTSWYVALKRTGQYKLGSKTGPGQKAILFLPMSAKS
3	PALPEDGGSGAFPPGH C KDPKRLYCKNGGFFLRIHPDGRVDGVREKSDPH IKLQLQAEERGCVVSIKGV A ANRYLAMKEDGRL LASKCVTDECFFFERLES NNYNTYRSRKYTSWYVALKRTGQYKLGSKTGPGQKAILFLPMSAKS
4	PALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRIHPDGRVDGVREKSDPH IKLQLQAEERGCVVSIKGV C TGPGQKAILFLPMSAKS NNYNTYRSRKYTSWYVALKRTGQYKLG S
PEGylated conjugates	
5	PALPEDGGSGAFPPGH C KDPKRLYCKNGGFFLRIHPDGRVDGVREKSDPH IKLQLQAEERGCVVSIKGV A ANRYLAMKEDGRL LASK A VTDECFFFERLES NNYNTYRSRKYTSWYVALKRTGQYKLGSKTGPGQKAILFLPMSAKS
6	PALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRIHPDGRVDGVREKSDPH IKLQLQAEERGCVVSIKGV A VTDECFFFERLES NNYNTYRSRKYTSWYVALKRTGQYKLGSKTGPGQKAILFLPMSAKS
7	PALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRIHPDGRVDGVREKSDPH IKLQLQAEERGCVVSIKGV A ANRYLAMKEDGRL LASK A VTDECFFFERLES NNYNTYRSRKYTSWYVALKRTGQYKLG S C TGPGQKAILFLPMSAKS

mutated residuals were marked as red