

Table S1 Calculated disease activity index (DAI) score.

Score	Weight loss (%)	Stool consistency	Blood in feces
0	None	Normal	Negative (no bleeding)
1	1.0-5.0	Loose stools	Negative
2	5.0-10.0	Loose stools	Hemoccult positive (slight)
3	10.0-15.0	Diarrhea (slight)	Hemoccult positive
4	Over 15.0	Diarrhea (Watery diarrhea)	Gross bleeding

^aDisease activity index is a summation of the three parameters weight loss, stool consistency, and hematochezia. ^bNormal stool: well-shaped stool; loose stool: unformed pasty stool that does not stick to the anus; diarrhea: liquid stool that is attached to the anus.

Table S2 Standard for evaluation of histological injury.

In ammation	Mucosal injury	Crypt distortion	Area of lesions (%)	Score
None	None	None	None	0
Mild	Mucous layer	1/3	1–25	1
Moderate	Submucosa	2/3	26–50	2
Severe	Muscularis and serosa	100%	26–50	3
—	—	Entire crypt and surface epithelium destroyed	76–100	4

Table S3 Comparison table of abbreviations.

Full name	Abbreviation
A high-salt diet	HSD
Inflammatory bowel disease	IBD
Ulcerative colitis	UC
Crohn's disease	CD
Disease activity index	DAI
Hematoxylin and eosin	H&E
Myeloperoxidase	MPO
Cyclooxygenase-2	COX-2
Inducible nitric oxide synthase	iNOS
Immunohistochemical	IHC
Periodic acid-schiff	PAS
Tight junction	TJ
Transmission electron microscopy	TEM
4', 6-diamidino-2-phenylindole	DAPI
Diamine oxidase	DAO
Immunofluorescence	IF
Bicinchoninic acid	BCA
Malonic dialdehyde	MDA
Superoxide dismutase	SOD
Catalase	CAT
Glutathione peroxidase	GSH-PX
Short-chain fatty acids	SCFAs
Principal coordinate analysis	PCoA
Butyrate-rich polymer nanoparticle	PSBA