

Electronic Supplementary Information (ESI)

Glycoprotein CD98 as a receptor for colitis-targeted delivery of nanoparticle

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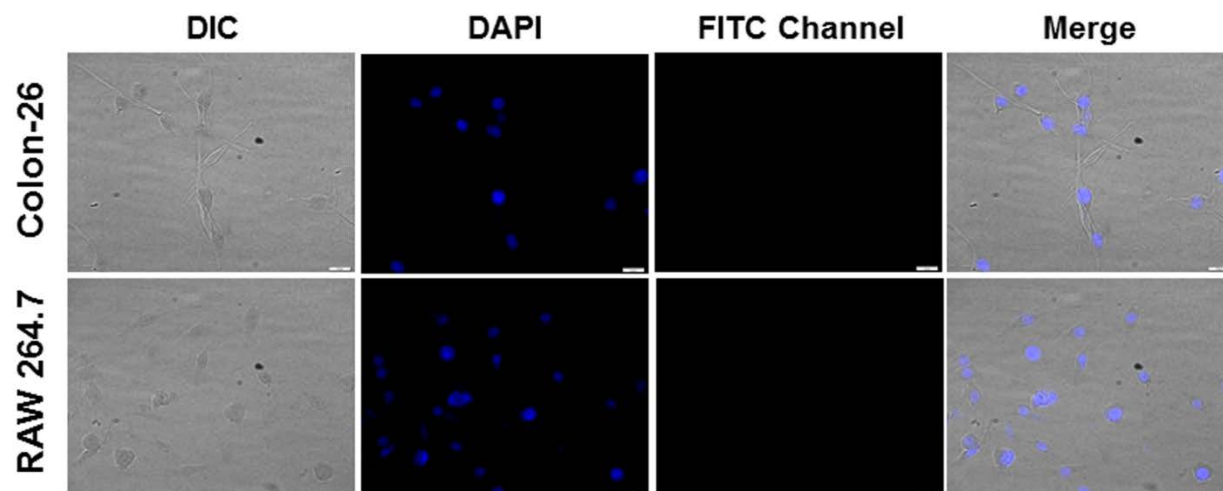
Supplementary Table S1. Primers used in this study.

Primer name	Sequence	Description
CD98-F	5'-GAGGACAGGCTTTTGATTGC-3'	CD98 gene RT-PCR forward primer
CD98-R	5'-ATTCAGTACGCTCCCCAGTG-3'	CD98 gene RT-PCR reverse primer
36B4-F	5'-TCCAGGCTTTGGGCATCA-3'	36B4 gene RT-PCR forward primer
36B4-R	5'-CTTTATCAGCTGCACATCACTCAGA-3'	36B4 gene RT-PCR reverse primer

Supplementary Table S2. The particle size, polydistribution index (PDI) and zeta-potential of nanoparticles using different concentration and ratio of stabilizers (PVA and bPEI). (n=3).

NPs group NO.	PVA (%)	bPEI (%)	Particle Size (nm)	polydispersity Index (PDI)	Zeta-potential (mV)
1	0.6	–	524.6	0.225	-16.75
	1.2	–	388.3	0.005	-13.46
	2	–	295.1	0.005	-16.48
	3	–	386.2	0.005	-14.44
2	0.6	0.5	510.3	0.211	+45.80
	1.2	0.5	384.3	0.119	+54.87
	2	0.5	334.5	0.196	+55.55
	3	0.5	290.6	0.084	+36.00
3	0.6	1	402.1	0.242	+47.37
	1.2	1	338.2	0.035	+42.74
	2	1	366.9	0.005	+45.75
	3	1	333.9	0.011	+49.58
4	0.6	2	381.5	0.056	+45.80
	1.2	2	314.9	0.005	+43.19
	2	2	313.4	0.208	+57.00
	3	2	340.8	0.005	+54.89

Supplementary Fig. S1



Supplementary Fig. S1 Images of cellular uptake of free quantum dots (QDs) by Colon-26 and RAW 264.7 cells. Cells were treated with free QDs (1.25 $\mu\text{g}/\text{mL}$) for 6 h and processed for fluorescence staining. Fixed cells were stained with DAPI (purple) for visualization of nuclei. Scale bar represents 10 μm .