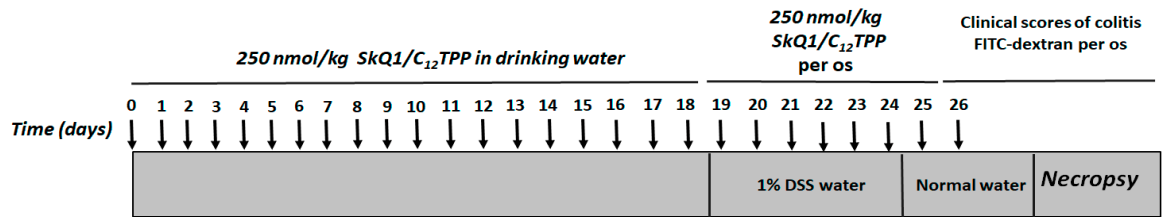


Supplementary Table S1. Histological grading of colitis

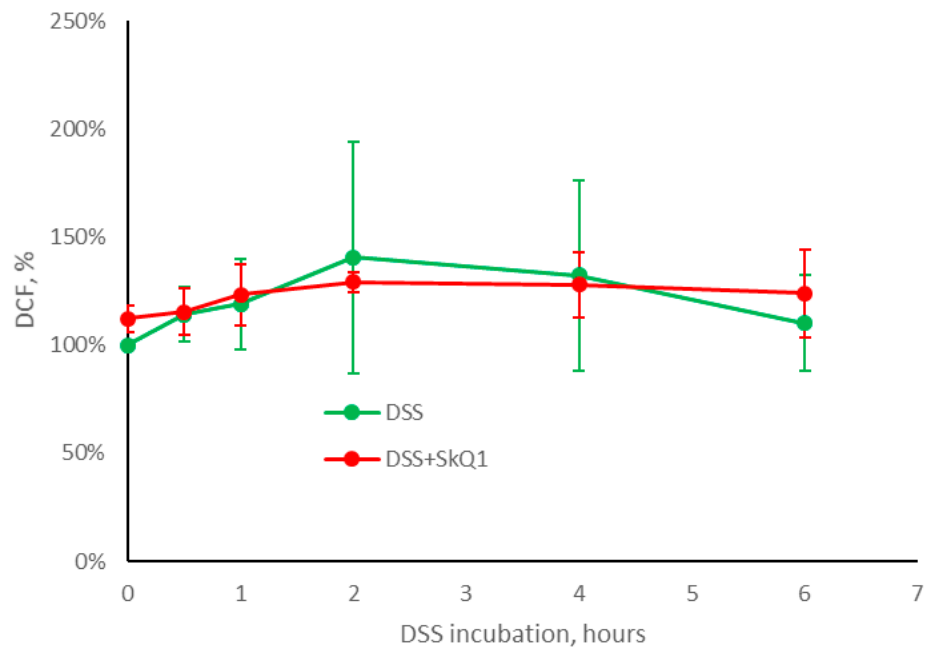
Feature	Score	Description
Damage	0	None
	1	Loss of the basal $\frac{1}{3}$ of the crypt
	2	Loss of the basal $\frac{2}{3}$ of the crypt
	3	Loss of entire crypt but intact surface epithelial cells
	4	Loss of both the entire crypt and the surface epithelial cells
Extension	0	None
	1	Focal
	2	Lesions involving $\frac{1}{3}$ of the intestine
	3	Lesions involving $\frac{2}{3}$ of the intestine
	4	Lesions involving the entire intestine

Supplementary Table S2. Primer sequences used in this study.

Gene	Forward primer (5'-3')	Reverse primer (5'-3')
EEF2	TGTCAGTCATCGCCCATGTG	CATCCTTGCGAGTGTTCAGTGA
HO1	CACGCATATACCCGCTACC	TCATCTCCAGAGTGTTCATTCTG
ICAM1	CAGGTATACAAGTTACAGAAGG	TGACAGCCAGAGGAAGTG
IL-18	GTTCACTCTCATAACTTACATCAA	ATACAGGCGAGGTCATCAC
IL-1 α	AGACTCTACACATATTACAG	CAGCATTAAAGTTCTTATACC
IL-1 β	TCAATGGACAGAATATCAAC	CACAGGACAGGTATAGATT
IL-6	ACCGCTATGAAGTTCCTCTC	CTCTGTGAAGTCTCCTCTCC
IL-8	ACTTCAAGAACATCCAGAGC	CTTCCAGGTCAGTTAGCC
TBP	ACCGTGAATCTTGGCTGTAAAC	GCAGCAAATCGCTTGGGATTA
TNF α	CGTGGAAGTGGCAGAAGAG	ACAAGCAGGAATGAGAAGAGG



Supplementary Figure S1. Experimental design for DSS-induced colitis in mice. Two groups of mice received SkQ1 and C₁₂TPP for 18 days with drinking water and per os from day 19 to 26. To induce colitis, mice were given 1% DSS in drinking water from day 19 to 24, then DSS was changed to tap water for 1 day. On day 8, the clinical assessment of colitis was examined. Mice received 4 kDa FITC-dextran per os. After 4 hours, mice were anesthetized and blood was taken from the jugular veins for further measurement of fluorescence in plasma. The colons were removed, measured, and used for further histological and gene expression analysis.



Supplementary Figure S2. Effect of SkQ1 on intracellular ROS level in Caco-2 intestinal cells after DSS treatment. Intracellular ROS were measured as DCFH₂-DA oxidation with flow cytometry. After treatment with 2 nM of SkQ1 for 48 h cells were treated with 2% DSS for indicated time. Thereafter they were loaded with 5 μ M DCFH₂-DA for 20 min at 37°C. Flow cytometric analysis was performed using flow cytometer Beckman Coulter FC500. Results are expressed as mean \pm SD (n=3).