

Genetic and pharmacological blockade of Sigma-1 receptors attenuates inflammation-associated hypersensitivity during acute colitis in CD1 mice

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Supplementary Material

Figure S1. Histopathological assessment of the colon. A-D: Representative microphotographs showing hematoxylin and eosin-stained colonic slices from WT vehicle-treated mice (A), DSS-treated WT mice (B), σ 1R KO vehicle-treated mice (C) and DSS-treated σ 1R KO mice (D). Notice the submucosal edema observed in DSS-treated WT mice (B), while it was markedly reduced in DSS-treated σ 1R KO mice (D). Scale bar: 200 μ m.

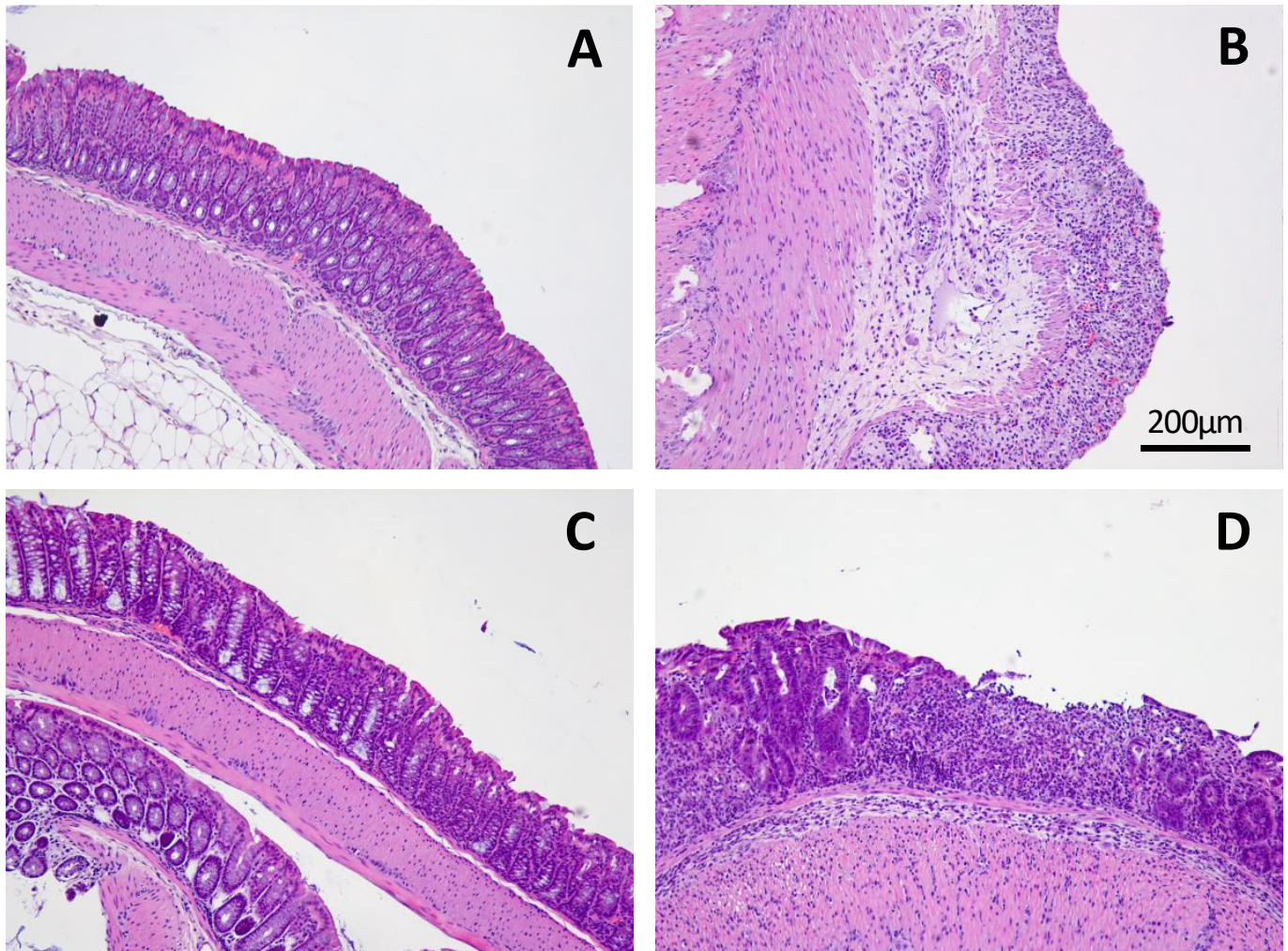


Figure S2. Colonic gene expression of σ 1Rs in WT and σ 1R KO CD1 mice. No expression was detected in σ 1R KO mice. Each point represents an individual animal; the horizontal bar with errors represents the mean \pm SEM.

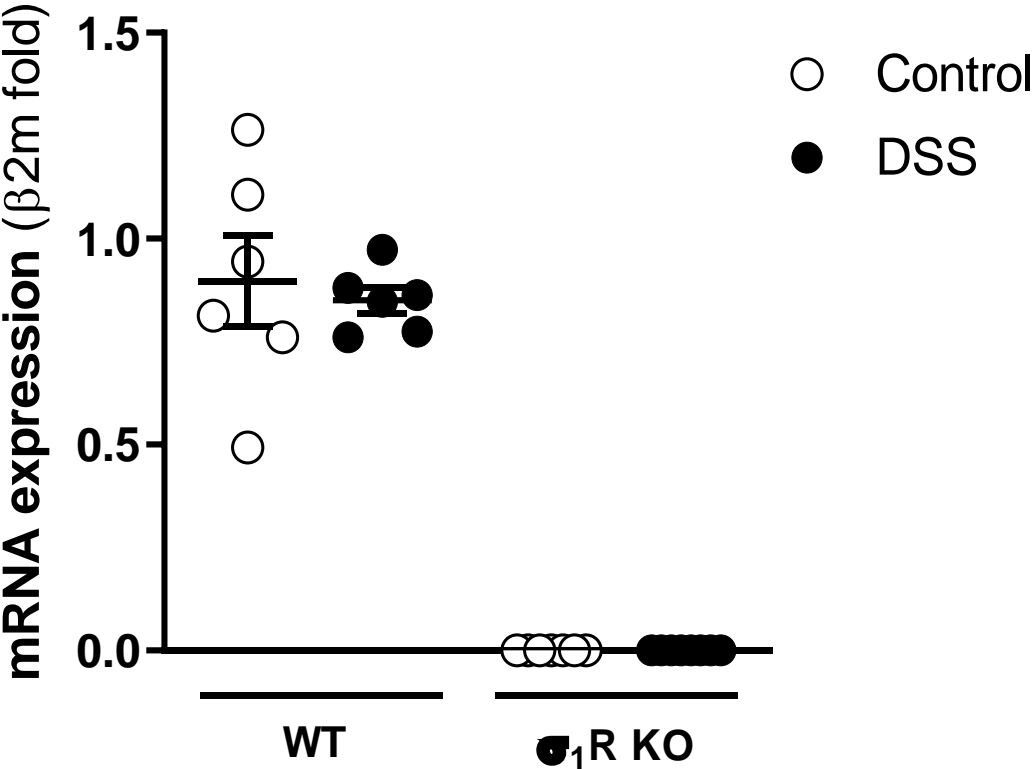


Figure S3. Relative levels of pERK (A), pCaMKII (B), pp38 (C) and GFAP (D) in the lumbosacral spinal cord of WT and σ_1 R KO CD1 mice with or without colitis. Data are mean \pm SEM of 6-8 animals per group.

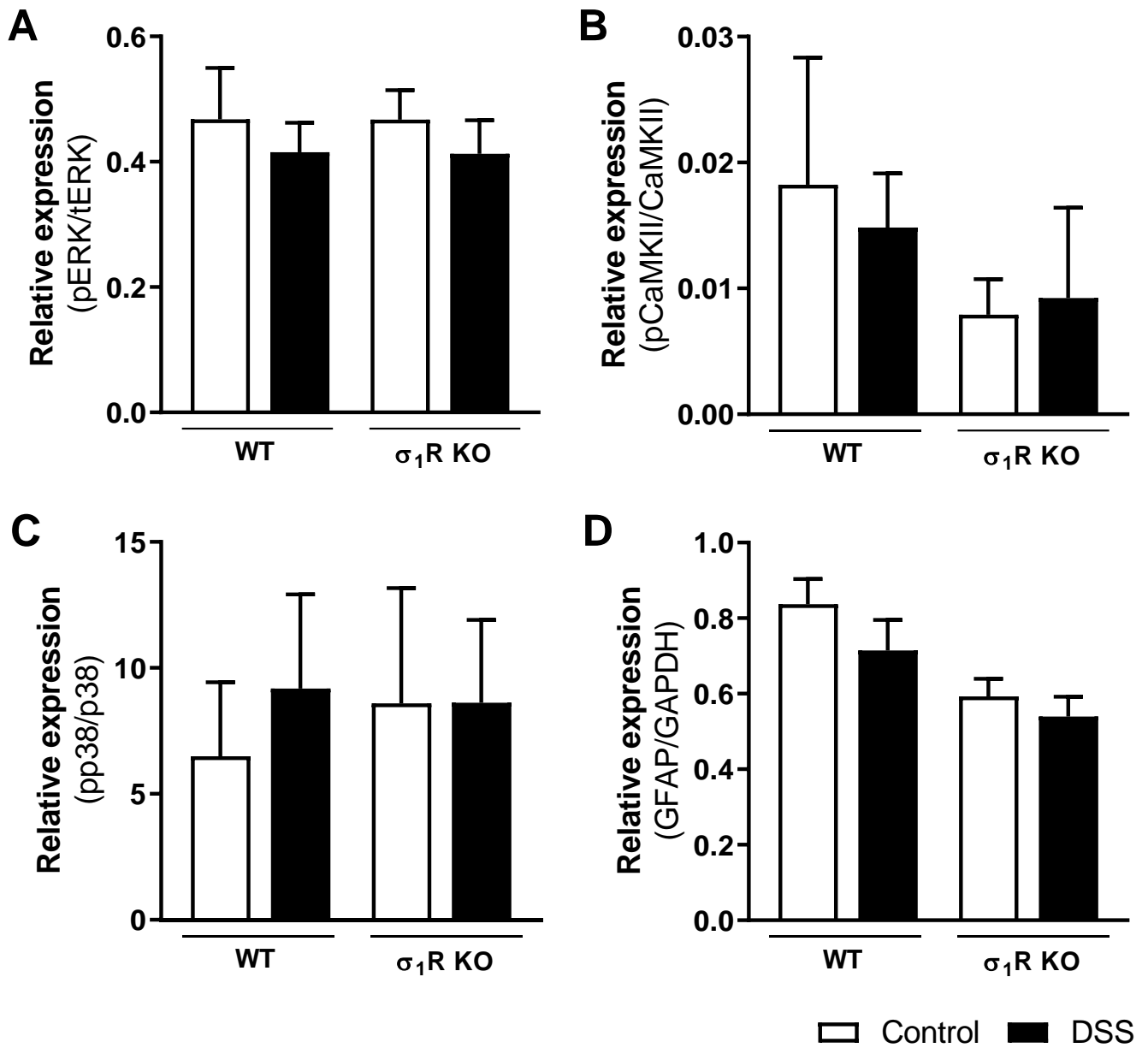


Figure S4. Effects of σ 1R antagonists (BD1063 or E-52862), 6-TG and 5-ASA on colonic gene expression of σ 1Rs. Each point represents an individual animal; the horizontal bar with errors represents the mean \pm SEM.

