

CHRONIC DSS-INDUCED ULCERATIVE COLITIS MODEL

QPS PHARMACOLOGY MODELS

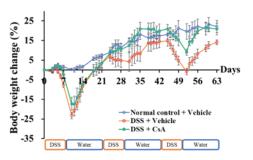
Chronic Ulcerative Colitis

Dextran sulphate sodium (DSS) colitis is the most widely used experimental murine model of ulcerative colitis (UC), established through the administration of DSS in drinking water. The chronic DSS-induced UC model is used to evaluate the therapeutic effects of a test article.

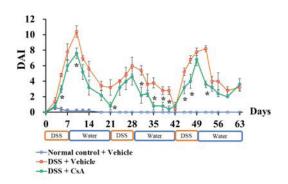
Study Details

- ▶ Groups of 5 female mice ages 8-9 weeks old.
- DSS is given in autoclaved drinking water for 7 days in each cycle, followed by a recovery period of 14 days with normal drinking water, which is repeated for a total of 3 cycles. The mice in the normal control group are given drinking water. The starting day of DSS is D0.
- ➤ Test articles, vehicle (10 mL/kg, PO), and the reference are administered 3 days after DSS challenge for the additional 5 days in each cycle for a total of 15 treatments.
- During the study period, DSS in drinking water induced clinical signs of IBD such as weight loss, diarrhea, and fecal occult blood, which are summed to report as a disease activity index (DAI) score. The DAI score is recorded three times weekly throughout the experiment.
- On Day 63, the mice are euthanized by an overdose of anesthesia, blood samples are taken for hematology, and the colon length and weight are recorded.

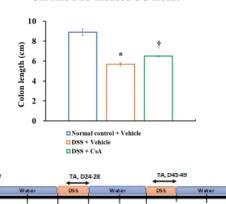
Chronic DSS-induced UC model



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