

CHRONIC DSS-INDUCED ULCERATIVE COLITIS MODEL

QPS PHARMACOLOGY MODELS

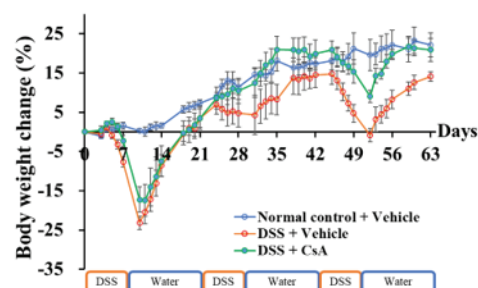
Dextran Sulphate Sodium

- ▶ 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.

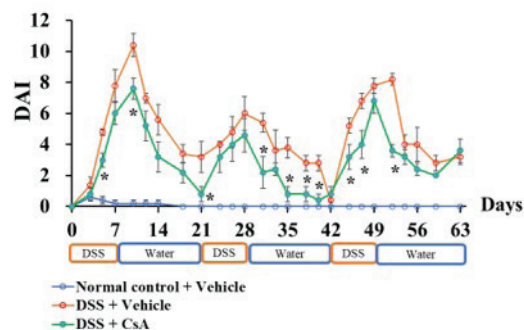
Study Details

- ▶ 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.

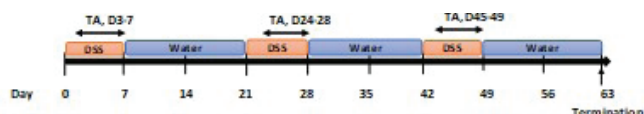
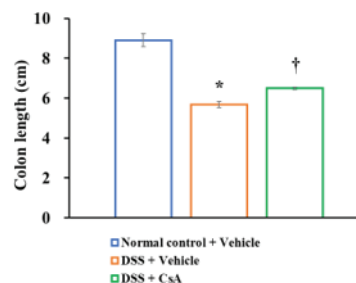
Chronic DSS-induced UC model



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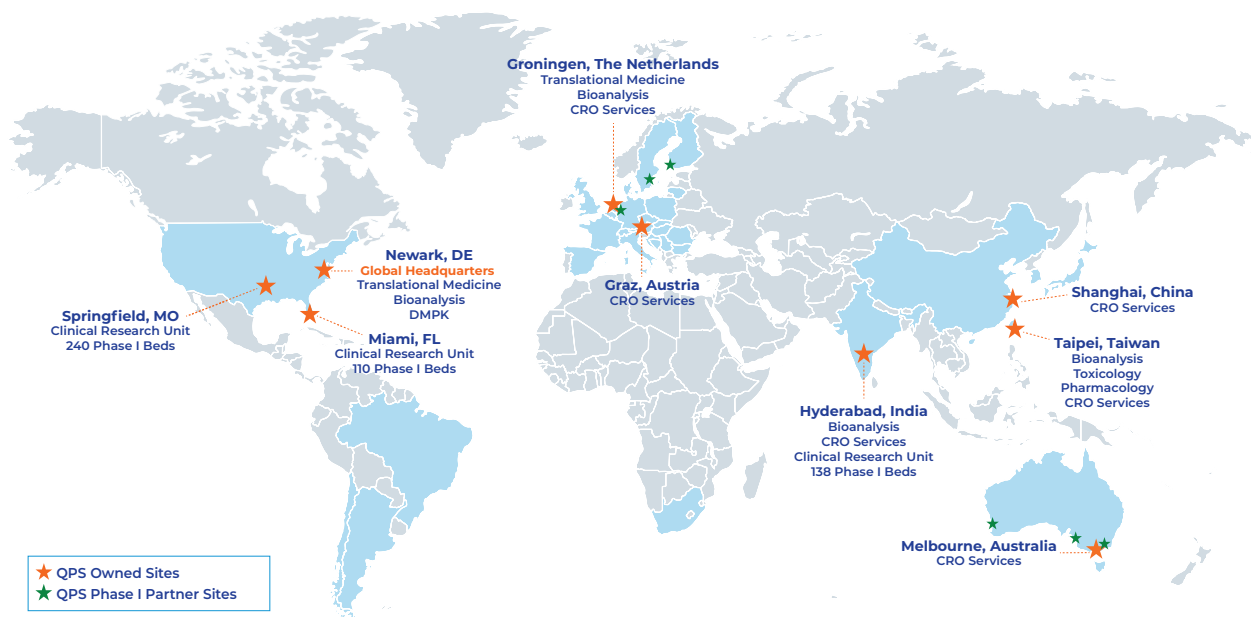


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