ACUTE DSS-INDUCED ULCERATIVE COLITIS MODEL

QPS PHARMACOLOGY MODELS
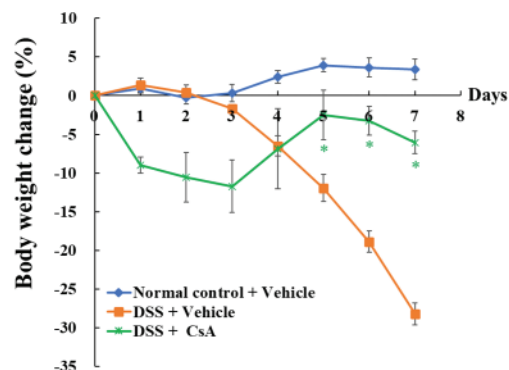
Acute Ulcerative Colitis

▸ 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 acute DSS-induced UC model is used to evaluate the therapeutic effects of a test article.
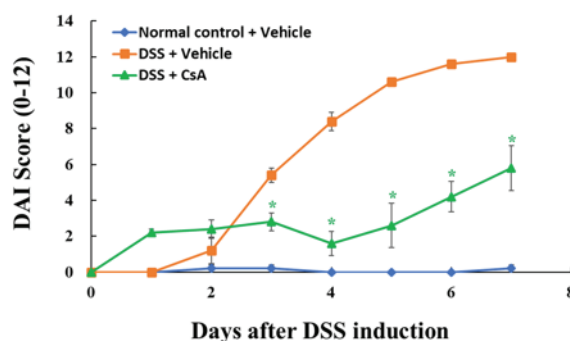
Study Details

▸ Groups of 5 female mice ages 8-9 weeks old.

▸ DSS is given in autoclaved drinking water for 8 days. The mice in the normal control group are given drinking water.

▸ Test articles, vehicle (10 mL/kg, PO), and the reference are administered during the DSS challenge periods for a total of 8 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 disease activity index (DAI) score. The DAI score is recorded daily for 8 days.

▸ On Day 8, the mice are euthanized by overdose of anesthesia, blood samples are taken for hematology, and the colon length and weight are recorded.

Acute DSS-induced ulcerative colitis model
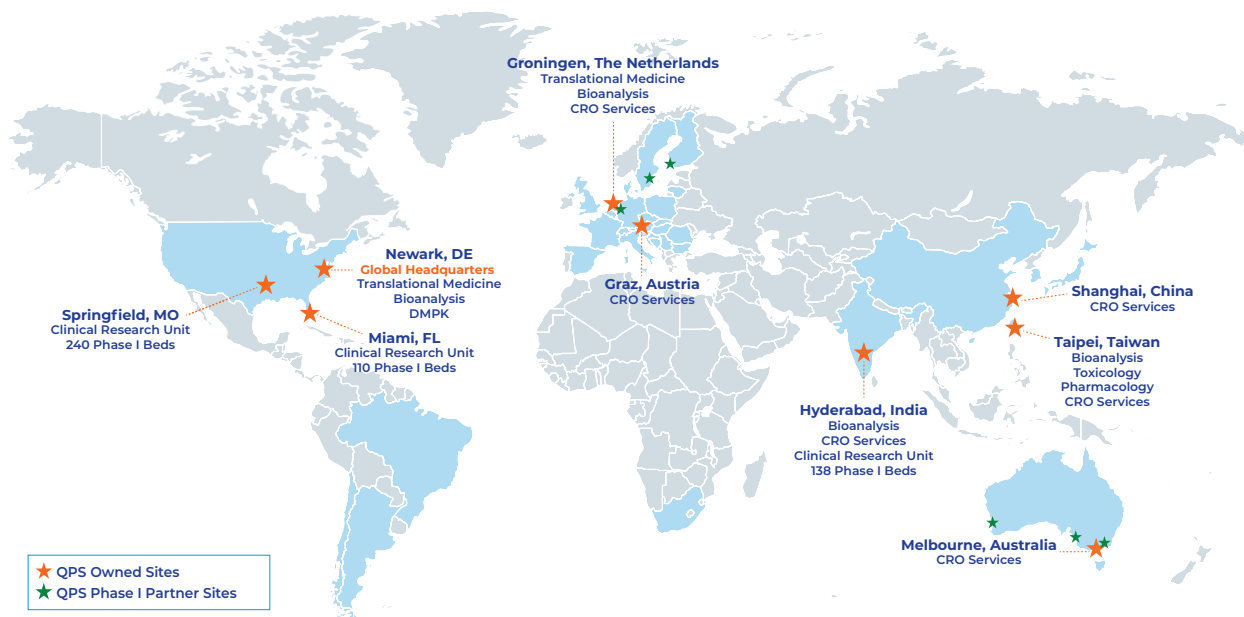

Acute DSS-induced ulcerative colitis model

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