

keyword

IBD

DSS

TNBS

dextran sulfate

diffuse
inflammation

T cells in lamina propria



Official website

Dextran sulfate-induced colitis model

As an inflammatory bowel disease (IBD) model with a view to developing new drugs and novel treatments for inflammatory bowel disease, dextran sulfate sodium (DSS) colitis model and trinitrobenzene sulfonic acid (TNBS) colitis model are commonly used. Both models are available at our facility. We will introduce a DSS-induced colitis model this time.

Test Method

Animals used: C57BL/6J mice

Induction method: A colitis model is prepared by administering dextran sulfate sodium (DSS) in water for 7 days.

Group composition: Control group, DSS group, DSS + low-dose tacrolimus group, DSS + high-dose tacrolimus group.

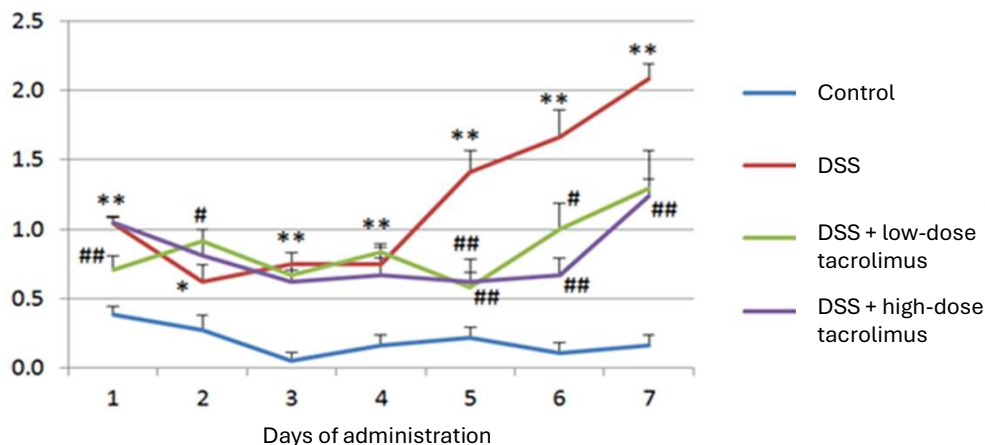
(Tacrolimus is administered orally for 7 days from the first day of DDS administration.)

Evaluation and Results

Evaluation methods: Disease Activity Index* (calculated from weight loss, diarrhea, and bloody stool scores), colon length, and histopathological examination.

*General term for evaluation indices used to quantify the disease activity.

DAI



* P<0.05, ** P<0.01 : vs control

P<0.05, ### P<0.01 : vs DSS

Results

Tacrolimus had an effect on DSS-induced colitis.