Sucralfate

Cat. No.: HY-B0644  
CAS No.: 54182-58-0  
Molecular Formula: C₁₂H₁₄Al₁₆O₇₅S₈  
Molecular Weight: 2046.42  
Target: Bacterial  
Pathway: Anti-infection  
Storage:  
- Powder: -20°C 3 years, 4°C 2 years  
- In solvent: -80°C 6 months, -20°C 1 month

SOLVENT & SOLUBILITY

In Vitro  
H₂O : 0.4 mg/mL (0.20 mM; ultrasonic and adjust pH to 2 with HCl)

BIOLOGICAL ACTIVITY

Description  
Sucralfate is a cytoprotective agent which has been employed for prevention and treatment of several gastrointestinal diseases.

In Vivo  
Sucralfate is a cytoprotective agent which has been employed for prevention and treatment of several gastrointestinal diseases. Enemas containing Sucralfate improves the inflammation and increases the tissue contents of neutral and acid mucins. The content of neutral mucins does not change with the time or concentration of Sucralfate used, while acid mucins increases with concentration and time of intervention. A significant increase in tissue content of neutral mucins in animals subjected to irrigation with Sucralfate (SCF) is found compare to animals irrigated with S.F. 0.9%, regardless of the concentration and duration of intervention[^1].

PROTOCOL

Animal Administration[^1]  
Thirty-six male Wistar rats (300 to 350 g) are used in this study. The animals are divided into two experimental groups with 18 animals in each group. Each experimental group is divided into six subgroups (n=6) according to the intervention solution employed and time of intervention. In the first and second subgroups, 12 animals receive daily rectal enemas containing 40 mL of 0.9% saline solution (control subgroup) at 37°C for two weeks (n=6) and four weeks (n=6). In the second subgroup, 12 animals receive daily rectal enemas containing 40 mL of Sucralfate (SCF) at a concentration of 1.0 g/kg for two weeks (n=6) and four weeks (n=6). Finally, 12 animals of the third subgroup receive daily enemas containing 40 mL of Sucralfate at a concentration of 2.0 g/kg for two weeks (n=6) and four weeks (n=6). In order to standardize the speed and time of application, the enemas are administered in all animals with an infusion pump whose speed is standardized at 2/mL/min[^1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.
REFERENCES


Caution: Product has not been fully validated for medical applications. For research use only.
Tel: 609-228-6898       Fax: 609-228-5909       E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA