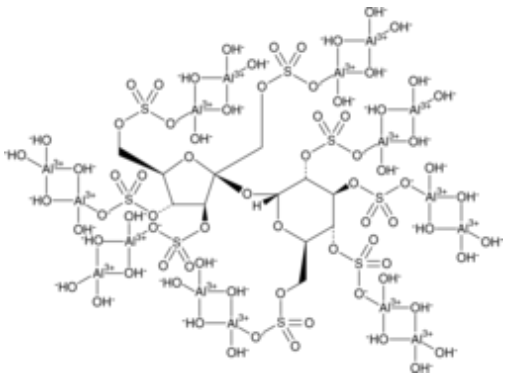
Product Data Sheet

Product Name: Sucralfate
Cat. No.: GC44964

Chemical Properties

Cas. No.	54182-58-0		
Formula	C12H54Al16O75S8	M.Wt	2086.7
Solubility	1M NaOH : 20 mg/mL (9.77 mM; ultrasonic and adjust pH to 12 with 1M NaOH); DMSO : < 1 mg/mL (insoluble or slightly soluble); H_2O : < 0.1 mg/mL (insoluble)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Protocol

Product Data Sheet

Animal experiment: 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].

References:

[1]. Chaim FM, et al. Evaluation of the application of enemas containing sucralfate in tissue content of neutral and acid mucins in experimental model of diversion colitis. Acta Cir Bras. 2014 Sep;29(9):544-52.

Background

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

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].

Product Data Sheet

References:

[1]. Chaim FM, et al. Evaluation of the application of enemas containing sucralfate in tissue content of neutral and acid mucins in experimental model of diversion colitis. Acta Cir Bras. 2014 Sep;29(9):544-52.