Sucralfate
Item No. 27882

CAS Registry No.: 54182-58-0
Formal Name: hexadeca-μ-
hydroxytetracosahydroxy[μ8-
[(1,3,4,6-tetra-O-sulfo-β-
D-fructofuranosyl α-D-
glucopyranoside tetrakis(sulfato-
κO')][(8-)][]hexadeca-aluminum
MF: C12H54Al16O75S8
FW: 2086.7
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Sucralfate is supplied as a solid. A stock solution may be made by dissolving the sucralfate in the solvent of choice, which should be purged with an inert gas. Sucralfate is slightly soluble in the aqueous acids.

Description

Sucralfate is a basic aluminum sucrose sulfate complex that has gastroprotective activity.\(^1\) It inhibits rat pepsin in a concentration-dependent manner and pepsin activity in isolated human gastric juice. It also inhibits ulcer formation induced by pyloric ligation, indomethacin (Item No. 70270), or cysteamine (Item No. 22193) in rats. Sucralfate (5,600 mg/animal) is protective against neutral ethanol and acidified taurocholic acid-induced damage in a rat model of hydrochloric acid-induced gastric mucosal damage, increasing the pH and reducing the disappearance of hydrogen ions.\(^2\) Formulations containing sucralfate have been used as antacids in the treatment of duodenal ulcer.

References