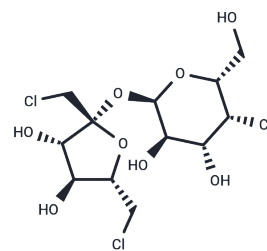


Sucralose

Chemical Properties

CAS No. :	56038-13-2
Formula:	C ₁₂ H ₁₉ Cl ₃ O ₈
Molecular Weight:	397.63
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Sucralose is a non-nutritive artificial sweetener and sugar substitute that stimulates appetite in rodents by activating a conserved neural fasting response.
Targets(IC50)	Endogenous Metabolite
In vitro	Using technetium-99m ((99m)Tc) to trace the morphology of erythrocytes in mice, along with the distribution of tissues traced by sodium pertechnetate (Na(99m)TcO(4)) and technetium-99m diethylenetriaminepentaacetate ((99m)Tc-DTPA), the impact of Sucralose on blood components was assessed. The results indicated that the blood components and cellular morphology of erythrocytes remained unchanged.
In vivo	The co-administration of peas and Sucralose to enteroendocrine cells induces higher levels of CCK (cholecystokinin) and GLP-1 (glucagon-like peptide-1) compared to their individual administration.

Solubility Information

Solubility	H ₂ O: 73 mg/mL (183.59 mM), Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 50 mg/mL (125.75 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5149 mL	12.5745 mL	25.149 mL
5 mM	0.503 mL	2.5149 mL	5.0298 mL
10 mM	0.2515 mL	1.2575 mL	2.5149 mL
50 mM	0.0503 mL	0.2515 mL	0.503 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Geraedts MC, et al. Mol Nutr Food Res, 2012, 56(3), 417-424.

Rocha GS, et al. Appl Radiat Isot, 2011, 69(1), 46-51.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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