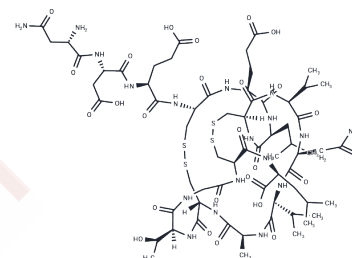


Plecanatide

Chemical Properties

CAS No. :	467426-54-6
Formula:	C ₆₅ H ₁₀₄ N ₁₈ O ₂₆ S ₄
Molecular Weight:	1681.89
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Plecanatide acetate is an analogue of Uroguanylin. It is an orally active guanylate cyclase-C (GC-C) receptor agonist.
Targets(IC50)	Guanylate cyclase
In vitro	Plecanatide (1 nM-10 μM) activates the GC-C receptor to stimulate cyclic guanosine monophosphate (cGMP) synthesis in T84 cells in a dose-dependent manner, with an EC ₅₀ of 190 nM[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5946 mL	2.9728 mL	5.9457 mL
5 mM	0.1189 mL	0.5946 mL	1.1891 mL
10 mM	0.0595 mL	0.2973 mL	0.5946 mL
50 mM	0.0119 mL	0.0595 mL	0.1189 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Yang J Y , Pharmacy D O . Plecanatide: a new guanylate cyclase C agonist for treatment of chronic idiopathic constipation[J]. Chinese Journal of New Drugs and Clinical Remedies, 2018.

<https://pubmed.ncbi.nlm.nih.gov/26558155/>

Rao SSC. Plecanatide: a new guanylate cyclase agonist for the treatment of chronic idiopathic constipation. Therap Adv Gastroenterol. 2018 Jun 8;11:1756284818777945.

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