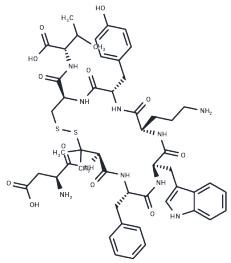
Data Sheet (Cat.No.TP2106)

TargetMol

Urantide

Chemical Properties



CAS No. : 669089-53-6

Formula: C51H66N10O12S2

Molecular Weight: 1075.26

Storage: Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Selective and competitive urotensin-II (UT) receptor antagonist (pKB = 8.3). Blocks hU-II induced contractions in thoracic aorta ex vivo. Exhibits no effect on noradrenaline or endothelin 1-induced contraction or on acetylcholine-induced relaxation. Behaves as a partial agonist in a calcium mobilization assay (in CHO cells expressing hUT receptors).
Targets(IC50)	GPCR

Solubility Information

Solubility	H2O: 2 mg/mL (1.86 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.930 mL	4.650 mL	9.3001 mL
5 mM	0.186 mL	0.930 mL	1.860 mL
10 mM	0.093 mL	0.465 mL	0.930 mL
50 mM	0.0186 mL	0.093 mL	0.186 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

Patacchini et al (2003) Urantide: an ultrapotent urotensin II antagonist peptide in the rat aorta. Br.J.Pharmacol. 140 1155 PMID:

Sun J, Zhou J, Sun S, et al.Protective effect of urotensin II receptor antagonist urantide and exercise training on doxorubicin-induced cardiotoxicity.Scientific Reports.2023, 13(1): 1279.

Carotenuto et al (2014) Lead optimization of P5U and urantide: discovery of novel potent ligands at the urotensin-II receptor. J.Med.Chem. 57 5965 PMID: