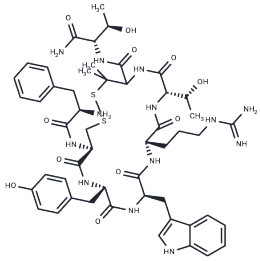
Data Sheet (Cat.No.TP2050)

TargetMol

CTAP

Chemical Properties



CAS No. : 103429-32-9

Formula: C51H69N13O11S2

Molecular Weight: 1104.32

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	Potent and selective μ opioid receptor antagonist (IC50 = 3.5 nM). Displays > 1200-fold selectivity over δ opioid and somatostatin receptors. Brain penetrant and active in vivo.
Targets(IC50)	Opioid Receptor

Solubility Information

Solubility	H2O: 1 mg/mL (0.91 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9055 mL	4.5277 mL	9.0553 mL
5 mM	0.1811 mL	0.9055 mL	1.8111 mL
10 mM	0.0906 mL	0.4528 mL	0.9055 mL
50 mM	0.0181 mL	0.0906 mL	0.1811 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

Abbruscato et al (1997) Blood-brain barrier permeability and bioavailability of a highly potent and μ-selective opioid receptor antagonist, CTAP: comparison with mor. J.Pharmacol.Exp.Ther. 280 402 PMID:
Kramer et al (1989) Novel peptidic mu opioid antagonists: pharmacologic characterization in vitro and in vivo. J. Pharmacol.Exp.Ther. 249 544 PMID:
Pelton et al (1986) Design and synthesis of conformationally constrained somatostatin analogues with high potency and specificity for μ opioid receptors. J.Med.Chem. 29 2370 PMID:

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