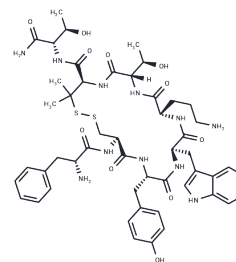


CTOP

Chemical Properties

CAS No. :	103429-31-8
Formula:	C50H67N11O11S2
Molecular Weight:	1062.28
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Potent and selective μ opioid receptor antagonist (K_i values are 0.96 and $>10,000$ nM for μ and δ receptors respectively). Causes behavioral effects on central administration in vivo. Also increases K^+ currents in rat locus ceruleus neurons in vitro via a μ receptor independent mechanism.
Targets(IC50)	Opioid Receptor

Solubility Information

Solubility	H2O: 1 mg/mL (0.94 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	0.9414 mL	4.7069 mL	9.4137 mL
5 mM	0.1883 mL	0.9414 mL	1.8827 mL
10 mM	0.0941 mL	0.4707 mL	0.9414 mL
50 mM	0.0188 mL	0.0941 mL	0.1883 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

Badiani et al (1995) Intra-VTA injections of the mu-opioid antagonist CTOP enhance locomotor activity. Brain Res. 690 112 PMID:

Gulya et al (1988) Central effects of the potent and highly selective mu opioid antagonist D-Phe-Cys-Tyr-D-Trp-Orn-Thr-Pen-Thr-NH₂ (CTOP) in mice. Eur.J.Pharmacol. 150 355 PMID:

Hawkins et al (1989) [3H]-[H-D-Phe-Cys-Tyr-D-Trp-Orn-Thr-Pen-Thr-NH₂] ([3H]CTOP), a potent and highly selective peptide for mu opioid receptors in rat brain. J.Pharmacol.Exp.Ther. 248 73 PMID:

Chieng et al (1996) The μ -opioid receptor antagonist D-Phe-Cys-Tyr-D-Trp-Orn-Thr-Pen-Thr-NH₂ (CTOP) [but not D-Phe-Cys-Tyr-D-Trp-Arg-Thr-Pen-Thr-NH₂ (CTAP)] produces a no Mol.Pharmacol. 50 650 PMID:

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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