

CTAP TFA

Chemical Properties

CAS No. :

Formula: C₅₃H₇₀F₃N₁₃O₁₂S₂

Molecular Weight: 1218.32

Keep away from moisture

Storage: 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	CTAP TFA, a potent and highly selective μ opioid receptor antagonist that effectively crosses the blood-brain barrier, exhibits a significant inhibition concentration (IC ₅₀) of 3.5 nM. It demonstrates extraordinary selectivity, being over 1200-fold more specific to μ opioid receptors than to δ opioid (IC ₅₀ = 4500 nM) and somatostatin receptors. This compound is primarily leveraged for researching L-DOPA-induced dyskinesia (LID) and opiate overdose or addiction [1] [2].
Targets(IC ₅₀)	Opioid Receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8208 mL	4.104 mL	8.208 mL
5 mM	0.1642 mL	0.8208 mL	1.6416 mL
10 mM	0.0821 mL	0.4104 mL	0.8208 mL
50 mM	0.0164 mL	0.0821 mL	0.1642 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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