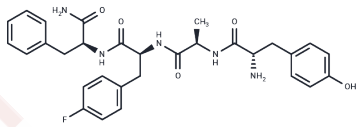
Data Sheet (Cat.No.T11323L)

TargetMol

Frakefamide

Chemical Properties



CAS No. : 188196-22-7

Formula: C30H34FN5O5

Molecular Weight: 563.62

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	Frakefamide, a potent analgesic, functions as a peripheral active μ-selective receptor agonist and cannot penetrate the blood-brain barrier to enter the central nervous system.
Targets(IC50)	Others,Opioid Receptor
In vivo	Frakefamide exhibits a dose-dependent enhancement in morphine-appropriate responses, reaching 50% at the maximal tested dose (10 μmol/kg) following a 2-minute infusion period. However, after 15-minute infusions, the peak morphine-appropriate response achieved is 25% at a dose of 17.5 μmol/kg [1,2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7742 mL	8.8712 mL	17.7425 mL
5 mM	0.3548 mL	1.7742 mL	3.5485 mL
10 mM	0.1774 mL	0.8871 mL	1.7742 mL
50 mM	0.0355 mL	0.1774 mL	0.3548 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

Modalen AO, et al. A novel molecule (frakefamide) with peripheral opioid properties: the effects on resting ventilation compared with morphine and placebo. Anesth Analg. 2005 Mar;100(3):713-7.
Swedberg MD, et al. Drug discrimination: A versatile tool for characterization of CNS safety pharmacology and potential for drug abuse. J Pharmacol Toxicol Methods. 2016 Sep-Oct;81:295-305.

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