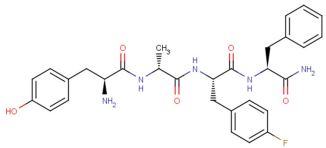
Data Sheet (Cat.No.T11323L)

TargetMol
A DRUG SCREENING EXPERT

Frakefamide

Chemical Properties



CAS No.:	188196-22-7
Formula:	C30H34FN5O5
Molecular Weight:	563.62
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Frakefamide is a potent analgesic. It acts as a peripheral active μ-selective receptor agonist. Frakefamide is unable to penetrate the blood-brain-barrier and enter the central nervous system.
Targets(IC_{50})	Others: None
In vivo	Frakefamide yields a dose-dependent increase in morphine appropriate responding to 50% at the highest dose tested (10 μmol/kg) after infusion durations of 2 min. Whereas after 15 min infusions a maximum of 25% morphine appropriate responding was occasioned at 17.5 μmol/kg [1,2].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.774 mL	8.871 mL	17.742 mL
5 mM	0.355 mL	1.774 mL	3.548 mL
10 mM	0.177 mL	0.887 mL	1.774 mL
50 mM	0.035 mL	0.177 mL	0.355 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. 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.
2. 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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