

MIV-247

Chemical Properties

CAS No.:	1352817-76-5
Formula:	C ₁₇ H ₂₄ F ₃ N ₃ O ₄
Molecular Weight:	391.39
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	MIV-247 is a selective inhibitor of cathepsin S (human, mouse and cynomolgus monkey cathepsin S with Kis of 2.1, 4.2 and 7.5 nM , respectively).
Targets(IC ₅₀)	Human Cathepsin S: 2.1 nM Mouse Cathepsin S: 4.2 nM Cynomolgus monkey Cathepsin S: 7.5 nM
In vivo	Cathepsin S inhibition with MIV-247 exerts significant antiallodynic efficacy alone, and also enhances the effect of gabapentin and pregabalin without increasing side effects or inducing pharmacokinetic interactions[1].

Solubility Information

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

	1mg	5mg	10mg
1 mM	2.555 mL	12.775 mL	25.55 mL
5 mM	0.511 mL	2.555 mL	5.11 mL
10 mM	0.255 mL	1.277 mL	2.555 mL
50 mM	0.051 mL	0.255 mL	0.511 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 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Hewitt E. et al. Selective Cathepsin S Inhibition with MIV-247 Attenuates Mechanical Allodynia and Enhances the Antiallodynic Effects of Gabapentin and Pregabalin in a Mouse Model of Neuropathic Pain. J Pharmacol Exp Ther. 2016 Sep;358(3):387-96.

Inhibitors · Natural Compounds · Compound Libraries

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