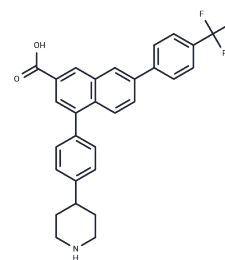


PPTN

Chemical Properties

CAS No. :	1160271-30-6
Formula:	C ₂₉ H ₂₄ F ₃ NO ₂
Molecular Weight:	475.5
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	PPTN is a high-affinity, competitive and highly selective antagonist of P2Y ₁₄ receptor (K _B value of 434 pM), with anti-inflammatory and immune activity.
Targets(IC ₅₀)	P2Y Receptor
In vitro	PPTN exhibits strong selectivity for the P2Y ₁₄ -R over the other seven nucleotide-activated P2Y receptors. It inhibits UDP-glucose-promoted chemotaxis in differentiated HL-60 human promyelocytic leukemia cells, with IC ₅₀ s of approximately 1 nM in the presence of 10 μM UDP-glucose and around 4 nM in the presence of 100 μM[1].

Solubility Information

Solubility	DMSO: 1.58 mg/mL (3.32 mM), Sonication is recommended. Ethanol: insoluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.103 mL	10.5152 mL	21.0305 mL
5 mM	0.4206 mL	2.103 mL	4.2061 mL
10 mM	0.2103 mL	1.0515 mL	2.103 mL
50 mM	0.0421 mL	0.2103 mL	0.4206 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

Barrett MO, et al. A selective high-affinity antagonist of the P2Y14 receptor inhibits UDP-glucose-stimulated chemotaxis of human neutrophils. Mol Pharmacol. 2013 Jul;84(1):41-9.

Lin J, et al. The P2Y14 receptor in the trigeminal ganglion contributes to the maintenance of inflammatory pain. Neurochem Int. 2019 Dec;131:104567.

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