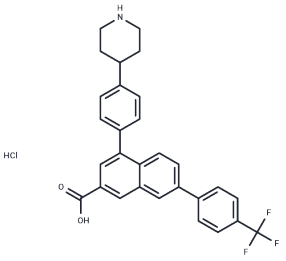
Data Sheet (Cat.No.T63534)

TargetMol

PPTN hydrochloride

Chemical Properties



CAS No. : 1992047-65-0

Formula: C29H25ClF3NO2

Molecular Weight: 511.96

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 hydrochloride is a potent, high-affinity, competitive, and highly selective P2Y14 receptor antagonist (KB: 434 pM) with no agonist or antagonist activity at P2Y1, P2Y2, P2Y4, P2Y6, P2Y11, P2Y12, or P2Y13 receptors, exhibiting anti-inflammatory and anti-immune effects.
Targets(IC50)	P2Y Receptor

Solubility Information

Solubility	DMSO: 250 mg/mL (488.32 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (19.53 mM),Solution. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9533 mL	9.7664 mL	19.5328 mL
5 mM	0.3907 mL	1.9533 mL	3.9066 mL
10 mM	0.1953 mL	0.9766 mL	1.9533 mL
50 mM	0.0391 mL	0.1953 mL	0.3907 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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