

NP-1815-PX

Chemical Properties

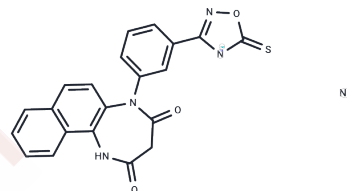
CAS No. : 1239578-80-3

Formula: C₂₁H₁₃N₄NaO₃S

Molecular Weight: 424.41

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	NP-1815-PX is a selective P2X ₄ receptor antagonist with anti-inflammatory and analgesic properties. It inhibits guinea pig tracheal/bronchial smooth muscle contraction and can be used to study chronic pain.
Targets(IC ₅₀)	P2X Receptor
In vitro	NP-1815-PX is a novel selective antagonist of P2X ₄ R. NP-1815-PX effectively inhibited the increase of [Ca ²⁺] _i in P2x ₄ R-mediated HP2x ₄ R-1321N1 cells in a concentration-dependent manner, with IC ₅₀ value of 0.26 μM for hP2X ₄ R. [1]
In vivo	In a mouse model of chronic pain, NP-1815-PX inhibited mechanical abnormal pain induced by nerve damage without any change in basal pain sensitivity or motor function. NP-1815-PX showed inhibitory effect on mechanical abnormal pain in a herpes pain model. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3562 mL	11.7811 mL	23.5621 mL
5 mM	0.4712 mL	2.3562 mL	4.7124 mL
10 mM	0.2356 mL	1.1781 mL	2.3562 mL
50 mM	0.0471 mL	0.2356 mL	0.4712 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

Matsumura Y, et al. A novel P2X4 receptor-selective antagonist produces anti-allodynic effect in a mouse model of herpetic pain. Sci Rep. 2016 Aug 31;6:32461.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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