Data Sheet (Cat.No.T10204)

TargetMol®
YOUR TARGET MOLECULES

A-317491 sodium salt hydrate

Chemical Properties

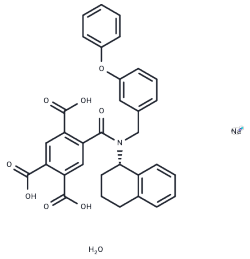
CAS No. :

Formula: C33H29NNaO9

Molecular Weight: 606.57

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	A-317491 sodium salt hydrate is a non-nucleotide P2X3 and P2X2/3 receptor antagonist, which inhibits calcium flux mediated by the receptors.
Targets(IC50)	Others
In vitro	A-317491 is known that P2X3 and P2X2/3 receptors stimulate the pronociceptive effects of ATP upon activation. Studies indicate that the P2X3 receptor is implicated in both neuropathic and inflammatory pain. The P2X3 receptor is a promising target for therapeutic intervention in cancer patients for pain management.

Solubility Information

Solubility	DMSO: 100 mg/mL (164.86 mM), H2O: 100 mg/mL (164.86 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6486 mL	8.2431 mL	16.4861 mL
5 mM	0.3297 mL	1.6486 mL	3.2972 mL
10 mM	0.1649 mL	0.8243 mL	1.6486 mL
50 mM	0.033 mL	0.1649 mL	0.3297 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.

Reference

Hansen RR, Nasser A, Falk S, et al. Chronic administration of the selective P2X3, P2X2/3 receptor antagonist, A-317491, transiently attenuates cancer-induced bone pain in mice. Eur J Pharmacol. 2012 Aug 5;688(1-3):27-34.

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