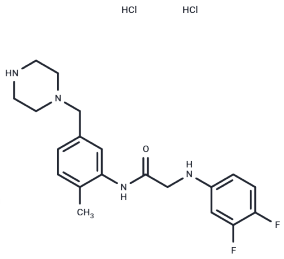
Data Sheet (Cat.No.T7805)

TargetMol

GW791343 dihydrochloride

Chemical Properties



CAS No. : 1019779-04-4

Formula: C20H26Cl2F2N4O

Molecular Weight: 447.35

Storage: Keep away from moisture
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	GW791343 dihydrochloride (GW791343 (HCl)) is a P2X7 allosteric modulator.
Targets(IC50)	P2X Receptor
In vitro	GW791343 were non-competitive inhibitors of human P2X(7) receptors.?Receptor protection studies using decavanadate and pyridoxalphosphate-6-azophenyl-2',4'-disulphonic acid (PPADS) showed that neither compound-17 nor GW791343 competitively interacted at the ATP binding site and so were probably negative allosteric modulators of the P2X(7) receptor.?GW791343 prevented the slowly reversible blockade of the human P2X(7) receptor produced by compound-17 and inhibited [(3)H]-compound-17 binding to the P2X(7) receptor suggesting they may bind to similar or interacting sites[1].

Solubility Information

Solubility	DMSO: 42 mg/mL (93.89 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.47 mM),Sonication is recommended. *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	2.2354 mL	11.1769 mL	22.3539 mL
5 mM	0.4471 mL	2.2354 mL	4.4708 mL
10 mM	0.2235 mL	1.1177 mL	2.2354 mL
50 mM	0.0447 mL	0.2235 mL	0.4471 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

A D Michel, L J Chambers, D S Walter. Negative and positive allosteric modulators of the P2X7 receptor [J]. British Journal of Pharmacology, 2009, 153(4):737-750.
Habermacher, Chloé, Dunning K , Chataigneau T , et al. Molecular structure and function of P2X receptors[J]. Neuropharmacology, 2015:S0028390815300393.