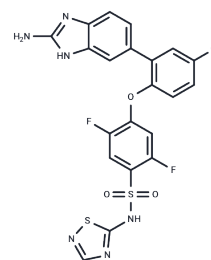


GX-674

Chemical Properties

CAS No. : 1432913-36-4
 Formula: C₂₁H₁₃ClF₂N₆O₃S₂
 Molecular Weight: 534.95
 Storage: Store at low temperature
 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	GX-674 is a highly potent and selective voltage-gated sodium channel 1.7 (Nav1.7) antagonist with an IC ₅₀ value of 0.1 nM measured at -40 mV for the study of inflammatory and neuropathic pain.
Targets(IC ₅₀)	Sodium Channel
In vitro	In HEK293 cells, the patch-clamp analysis was performed for human Nav channels. GX-674 shows a potent inhibition effect on Nav.1.7 (IC ₅₀ = 0.1nM). GX-674 also displays substantial selectivity on different Nav subtypes. It shows much higher inhibitory effects on Nav 1.7 over other Nav isoforms, such as 100000 times more potent for Nav1.7 than for Nav 1.5. GX-74 is also reported to bind to a high-affinity, isoform-selective, and extracellularly accessible site on VSD4.[1]

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8693 mL	9.3467 mL	18.6933 mL
5 mM	0.3739 mL	1.8693 mL	3.7387 mL
10 mM	0.1869 mL	0.9347 mL	1.8693 mL
50 mM	0.0374 mL	0.1869 mL	0.3739 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

Ahuja S, et al. Structural basis of Nav1.7 inhibition by an isoform-selective small-molecule antagonist. Science. 2015 Dec 18;350(6267):aac5464.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481