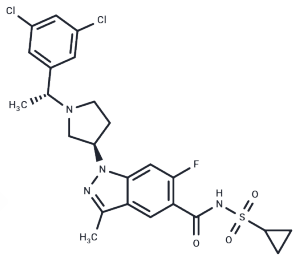
Data Sheet (Cat.No.T69915)

TargetMol

GX-585

Chemical Properties



CAS No. : 2098540-08-8

Formula: C24H25Cl2FN4O3S

Molecular Weight: 539.45

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	GX-585 is a sulfonamide analog that is a Nav 1.7 channel inhibitor with analgesic activity for the study of neuropathic pain and inflammation.
Targets(IC50)	Sodium Channel
In vitro	GX-585 is a potent inhibitor of NaV1.7 and highly selective for NaV1.5, but has different selectivity among neuronal NaV channels, with weaker inhibition of tetrodotoxin-resistant sodium currents in mouse DRG neurons, indicating weaker affinity for NaV1.8, with GX-585 blocking IC50 of 11.7 μM.[1]
In vivo	**METHODS**: In an animal model of acute injury, the effects of once daily (q.d.) oral administration of 3 mg/kg and 10 mg/kg GX-585 were evaluated 2 hours after the first, fifth, or twelfth daily dose. **RESULTS**: A single 10 mg/kg dose of GX-585 produced analgesic effects similar to repeated 3 mg/kg doses 2 hours after administration, but the activity was completely reversed after 24 hours. Thus, the long-term effects of repeated dosing are inconsistent with slow losses of the compound from plasma. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8537 mL	9.2687 mL	18.5374 mL
5 mM	0.3707 mL	1.8537 mL	3.7075 mL
10 mM	0.1854 mL	0.9269 mL	1.8537 mL
50 mM	0.0371 mL	0.1854 mL	0.3707 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

Bankar G, et al. Selective NaV1.7 Antagonists with Long Residence Time Show Improved Efficacy against Inflammatory and Neuropathic Pain. Cell Rep. 2018 Sep 18;24(12):3133-3145.

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