

GDC-0310

Chemical Properties

CAS No. : 1788063-52-4

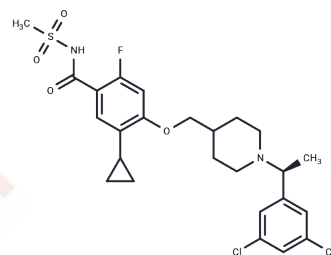
Formula: C₂₅H₂₉Cl₂FN₂O₄S

Molecular Weight: 543.48

Store at low temperature

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	GDC-0310 is a selective, orally available Nav1.7 inhibitor with an IC ₅₀ of 0.6 nM for human Nav1.7, suitable for pain research.
Targets(IC ₅₀)	Sodium Channel
In vitro	In vivo, the EC ₅₀ and K _i values of GDC-0310 for Nav1.7 were 1.1 μM and 1.8 nM, respectively.[1]
In vivo	GDC-0310 demonstrates significantly enhanced selectivity for Nav channels and favorable ADME (Absorption, Distribution, Metabolism, and Excretion) characteristics[1]. GDC-0310 exhibits half-lives (t _{1/2}) of 5 hours in rats (at a dose of 5 mg/kg, intravenously), 46 hours in dogs (1 mg/kg, intravenously), and 4.4 hours in cynomolgus monkeys (2 mg/kg, intravenously)[1].

Solubility Information

Solubility	DMSO: 3 mg/mL (5.52 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.840 mL	9.200 mL	18.3999 mL
5 mM	0.368 mL	1.840 mL	3.680 mL
10 mM	0.184 mL	0.920 mL	1.840 mL
50 mM	0.0368 mL	0.184 mL	0.368 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

Brian S Safina, et al. Discovery of Acyl-sulfonamide Na v 1.7 Inhibitors GDC-0276 and GDC-0310. J Med Chem. 2021 Mar 25;64(6):2953-2966.

Lei Xu, et al. Voltage-gated sodium channels: structures, functions, and molecular modeling. Drug Discov Today. 2019 Jul;24(7):1389-1397.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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