

PF-04856264

Chemical Properties

CAS No. : 1235397-05-3

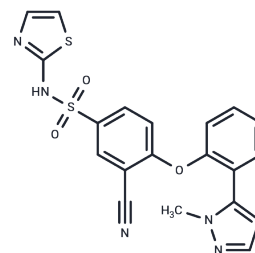
Formula: C₂₀H₁₅N₅O₃S₂

Molecular Weight: 437.5

Keep away from moisture

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	PF-04856264 is a Nav1.7 blocker. Nav1.7 is a chondrocyte modulator and a therapeutic target in osteoarthritis. Inhibition of Nav1.7 modulates intracellular Ca ²⁺ signaling and chondrocyte secretome, raises the threshold of mechanical pain and inhibits ERK expression, which has analgesic and anti-inflammatory effects.
Targets(IC50)	Sodium Channel
In vivo	Methods: PF-04856264 (3-30 mg/kg, intraperitoneal injection) was used to treat the OD1-induced spontaneous pain model in adult male C57BL/6J mice to observe its therapeutic effect. Results: PF-04856264 significantly reduced the spontaneous pain behavior of mice. [2]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2857 mL	11.4286 mL	22.8571 mL
5 mM	0.4571 mL	2.2857 mL	4.5714 mL
10 mM	0.2286 mL	1.1429 mL	2.2857 mL
50 mM	0.0457 mL	0.2286 mL	0.4571 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

McCormack K, Santos S, Chapman ML, Krafte DS, Marron BE, West CW, Krambis MJ, Antonio BM, Zellmer SG, Printzenhoff D, Padilla KM, Lin Z, Wagoner PK, Swain NA, Stupple PA, de Groot M, Butt RP, Castle NA. Voltage sensor interaction site for selective small molecule inhibitors of voltage-gated sodium channels. Proc Natl Acad Sci U S A. 2013 Jul 16;110(29):E2724-32. doi: 10.1073/pnas.1220844110. Epub 2013 Jul 1. PubMed PMID: 23818614; PubMed Central PMCID: PMC3718154.

Deuis JR, et al. Analgesic Effects of GpTx-1, PF-04856264 and CNV1014802 in a Mouse Model of Nav1.7-Mediated Pain. Toxins (Basel). 2016 Mar 17;8(3):78.

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