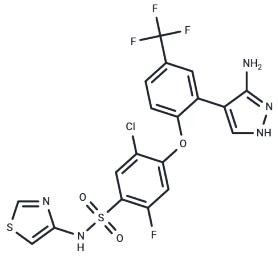
Data Sheet (Cat.No.T16485)

TargetMol

PF-05198007

Chemical Properties



CAS No. : 1235406-19-5

Formula: C19H12ClF4N5O3S2

Molecular Weight: 533.91

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-05198007 is a compound with a similar pharmacodynamic profile to PF-05089771. PF-05198007 is an effective and selective arylsulfonamide Nav1.7 inhibitor.
Targets(IC50)	Others,Sodium Channel
In vitro	PF-05198007 (30 nM) inhibits 83.0 ± 2.7% of the total TTX-S current, indicating that the majority of TTX-S conductance in small-diameter mouse DRG neurons (n = 35) occurs through Nav1.7 channels [1].
In vivo	PF-05198007 (1 or 10 mg/kg, orally) decreases the capsaicin flare response in WT but does not reduce Nav1.7Nav1.8Cre mice[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.873 mL	9.3649 mL	18.7297 mL
5 mM	0.3746 mL	1.873 mL	3.7459 mL
10 mM	0.1873 mL	0.9365 mL	1.873 mL
50 mM	0.0375 mL	0.1873 mL	0.3746 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

Alexandrou AJ, et al. Subtype-Selective Small Molecule Inhibitors Reveal a Fundamental Role for Nav1.7 in Nociceptor Electrogenesis, Axonal Conduction and Presynaptic Release. PLoS One. 2016 Apr 6;11(4):e0152405.
Kushnarev M, et al. Neuropathic pain: preclinical and early clinical progress with voltage-gated sodium channel blockers. Expert Opin Investig Drugs. 2020 Mar;29(3):259-271.

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