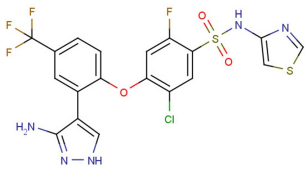
Data Sheet (Cat.No.T16485)

PF-05198007

Chemical Properties



CAS No.:	1235406-19-5
Formula:	C19H12ClF4N5O3S2
Molecular Weight:	533.91
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

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(IC_{50})	Nav1.7: None
In vitro	PF-05198007 (30 nM) blocks on average 83.0 ± 2.7% of the total TTX-S current. This shows the major TTX-S conductance is carried through Nav1.7 channels in small-diameter mouse DRG neurons (n = 35)[1].
In vivo	PF-05198007 (1 or 10 mg/kg, orally) decreases the capsaicin flare response in WT. However, it not reduces Nav1.7Nav1.8Cre mice[1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.873 mL	9.365 mL	18.73 mL
5 mM	0.375 mL	1.873 mL	3.746 mL
10 mM	0.187 mL	0.936 mL	1.873 mL
50 mM	0.037 mL	0.187 mL	0.375 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. 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.

2. 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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