

PF 05089771 tosylate

Chemical Properties

CAS No. : 1430806-04-4

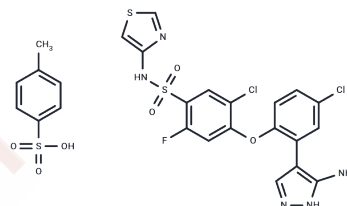
Formula: C₁₈H₁₂Cl₂FN₅O₃S₂.C₇H₈O₃S

Molecular Weight: 672.56

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

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|----------------------------|---|
| Description | PF-05089771 is a voltage-gated sodium channel 1.7 (Nav1.7) blocker (IC ₅₀ : 11, 16, 33, and 20 nM for 5N11S, 5A11L, 5A11S, and 5A11L Nav1.7 splice variants, respectively). It is selective for Nav1.7 over Nav1.1-1.6 and 1.8 channels (IC ₅₀ : 0.11-25 μM), L-type calcium, and KvLQT and hERG potassium channels (IC ₅₀ : ≥10 μM), as well as human and cynomolgus monkey TRPV1 receptors (IC ₅₀ : 10/20 μM). PF-05089771 is also 1, 000-fold selective for half-inactivated over resting Nav1.7 channels, and mutation of the domain IV voltage-sensor domain (VSD4) reduces PF-05089771 potency by approximately 100-fold. |
| Targets(IC ₅₀) | Sodium Channel |

Solubility Information

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| Solubility | DMSO: 50 mg/mL (74.34 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
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Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 1.4869 mL | 7.4343 mL | 14.8686 mL |
| 5 mM | 0.2974 mL | 1.4869 mL | 2.9737 mL |
| 10 mM | 0.1487 mL | 0.7434 mL | 1.4869 mL |
| 50 mM | 0.0297 mL | 0.1487 mL | 0.2974 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 A.J., et al. Subtype-selective small molecule inhibitors reveal a fundamental role for Nav1.7 in nociceptor electrogenesis, axonal conduction and presynaptic release. PLoS One 11(4), e0152405 (2016).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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