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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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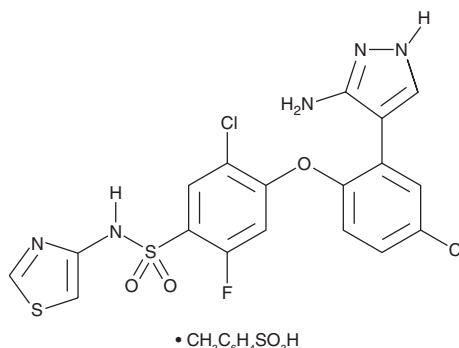
PRODUCT INFORMATION



PF-05089771 (tosylate)

Item No. 24449

CAS Registry No.: 1430806-04-4
Formal Name: 4-[2-(3-amino-1H-pyrazol-4-yl)-4-chlorophenoxy]-5-chloro-2-fluoro-N-(4-thiazolyl-4-benzenesulfonyl)-N-monomethylbenzenesulfonamide
MF: C₁₈H₁₂Cl₂FN₅O₃S₂ • C₇H₈O₃S
FW: 672.6
Purity: ≥98%
UV/Vis.: λ_{max}: 240 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

PF-05089771 (tosylate) is supplied as a crystalline solid. A stock solution may be made by dissolving the PF-05089771 (tosylate) in the solvent of choice. PF-05089771 (tosylate) is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of PF-05089771 (tosylate) in these solvents is approximately 33 mg/ml.

PF-05089771 (tosylate) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, PF-05089771 (tosylate) should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. PF-05089771 (tosylate) has a solubility of approximately 0.20 mg/ml in a 1:4 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

PF-05089771 is a voltage-gated sodium channel 1.7 (Na_v1.7) blocker (IC₅₀s = 11, 16, 33, and 20 nM for 5N11S, 5A11L, 5A11S, and 5A11L Na_v1.7 splice variants, respectively).¹ It is selective for Na_v1.7 over Na_v1.1-1.6 and 1.8 channels (IC₅₀s = 0.11-25 μM), L-type calcium, and K_vLQT and hERG potassium channels (IC₅₀s = ≥10 μM), as well as human and cynomolgus monkey TRPV1 receptors (IC₅₀s = 10 and 20 μM, respectively). PF-05089771 is also 1,000-fold selective for half-inactivated over resting Na_v1.7 channels, and mutation of the domain IV voltage-sensor domain (VSD4) reduces PF-05089771 potency by approximately 100-fold.

Reference

- Alexandrou, A.J., Brown, A.R., Chapman, M.L., *et al.* Subtype-selective small molecule inhibitors reveal a fundamental role for Na_v1.7 in nociceptor electrogenesis, axonal conduction and presynaptic release. *PLoS One* **11**(4), e0152405, (2016).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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