Product Data Sheet

Product Name: PF-05089771 (tosylate)
Cat. No.: GC18947

Chemical Properties

Cas. No.	1430806-04-4		
Chemical Name	4-[2-(3-amino-1H-pyrazol-4-yl)-4-chlorophenoxy]-5-chloro-2-fluoro-N-4-thiazolyl-4-benzenesulfonamide, monomethylbenzenesulfonate		
SMILES	ClC1=C(OC2=CC=C(Cl)C=C2C3=CNN=C3N)C=C(F)C(S(NC4=CSC=N4)(=O)=O)=C1.CC5=CC=C(S(O)(=O)=O)C=C5		
Formula	$C_{18}H_{12}Cl_2FN_5O_3S_2.C_7H_8O_3S$	M.Wt	672.6
Solubility	DMSO : ≥ 34 mg/mL (67.95 mM)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	PF-05089771 (tosylate)		

Background

PF-05089771 is a voltage-gated sodium channel 1.7 (Nav1.7) blocker (IC50s = 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 (IC50s = 0.11-25 μM), L-type calcium, and KvLQT 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 Nav1.7 channels, and mutation of the domain IV voltage-sensor domain (VSD4) reduces PF-05089771 potency by approximately 100-fold.

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