Data Sheet (Cat.No.T4230)

TargetMol

PF-3758309 hydrochloride

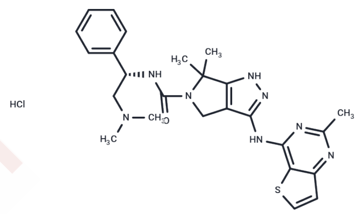
Chemical Properties

CAS No. : 1279034-84-2

Formula: C25H31ClN8OS

Molecular Weight: 527.08

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-3758309 hydrochloride (PF-03758309 hydrochloride) , is a PAK4 inhibitor, is also a n orally bioavailable small-molecule inhibitor of p21-activated kinase 4 (PAK4) with potential antineoplastic activity. PF-3758309 hydrochloride binds to PAK4, inhibiting PAK4 activity and cancer cell growth. PAK4, a serine/threonine kinase belonging to the p21-activated kinase (PAK) family, is often upregulated in a variety of cancer cell types and plays an important role in cancer cell motility, proliferation, and survival.
Targets(IC50)	Apoptosis,PAK

Solubility Information

Solubility	DMSO: 45 mg/mL (85.38 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8972 mL	9.4862 mL	18.9725 mL
5 mM	0.3794 mL	1.8972 mL	3.7945 mL
10 mM	0.1897 mL	0.9486 mL	1.8972 mL
50 mM	0.0379 mL	0.1897 mL	0.3794 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

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Ryu BJ, et al. PF-3758309, p21-activated kinase 4 inhibitor, suppresses migration and invasion of A549 human lung cancer cells via regulation of CREB, NF-κB, and β-catenin signalings. Mol Cell Biochem. 2014 Apr;389(1-2):69-77. doi: 10.12007/s112010-2013-1928-8. Epub 2013 Dec 24. PubMed PMID: 24366569.

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Itakura A, et al. p21-Activated kinase (PAK) regulates cytoskeletal reorganization and directional migration in human neutrophils. PLoS One. 2013 Sep 3;8(9):e73063. doi: 10.1371/journal.pone.20073063. eCollection 2013. PubMed PMID: 242019894; PubMed Central PMCID: PMC3760889.

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