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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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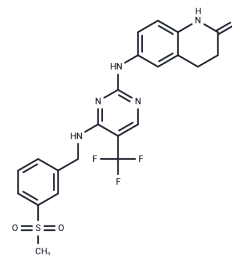
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PF-573228

Chemical Properties

CAS No. : 869288-64-2
Formula: C₂₂H₂₀F₃N₅O₃S
Molecular Weight: 491.49
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	PF-573228 is an ATP-competitive FAK inhibitor. In a cell-free assay, the IC ₅₀ of FAK is 4 nM.
Targets(IC ₅₀)	Apoptosis,FAK
Kinase Assay	Affinity determination: Purified activated FAK kinase domain (amino acids 410-689) is reacted with 50 μM ATP, and 10 μg/well of a random peptide polymer of Glu and Tyr (molar ratio of 4:1), poly(Glu/Tyr) in kinase buffer (50 mM HEPES, pH 7.5, 125 mM NaCl, 48 mM MgCl ₂) for 15 min. Phosphorylation of poly(Glu/Tyr) is challenged with serially diluted compounds at 1/2-Log concentrations starting at a top concentration of 1 μM. Each concentration is run in triplicate. Phosphorylation of poly(Glu/Tyr) is detected with a general anti-phospho-tyrosine (PY20) antibody, followed by horseradish peroxidase-conjugated goat anti-mouse IgG antibody. The standard horseradish peroxidase substrate 3, 3', 5, 5'-tetramethylbenzidine is added, and Optical Density readings at 450 nm are obtained following the addition of stop solution (2 M H ₂ SO ₄). The IC ₅₀ values are determined using the Hill slope model.
Cell Research	Growth assays are performed by seeding 1 × 10 ⁴ REF52 or PC3 cells/well of a 24-well plate in triplicate 24 h prior to daily treatment with the indicated concentrations of each inhibitor for 3 days. Subsequently, the cells are harvested and counted.(Only for Reference)

Solubility Information

Solubility	DMSO: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0346 mL	10.1731 mL	20.3463 mL
5 mM	0.4069 mL	2.0346 mL	4.0693 mL
10 mM	0.2035 mL	1.0173 mL	2.0346 mL
50 mM	0.0407 mL	0.2035 mL	0.4069 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.

Reference

Slack-Davis JK, et al. J Biol Chem, 2007, 282(20), 14845-14852.

Wang W, Shen Z, Tang Y, et al. Astragaloside IV Promotes the Angiogenic Capacity of Adipose-derived

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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