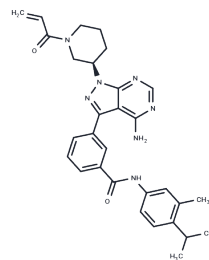


PF-06465469

Chemical Properties

CAS No. : 1407966-77-1
 Formula: C₃₀H₃₃N₇O₂
 Molecular Weight: 523.63
 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-06465469 is a covalent ITK inhibitor (IC ₅₀ = 2 nM) that also inhibits BTK. PF-06465469 suppresses CXCL12-mediated cell migration, decreases PD-1 and LAG-3 expression. PF-06465469 shows strong potential application in leukemia and T-cell lymphoma research.
Targets(IC50)	BTK,PD-1/PD-L1,LAG-3,CXCR,Tyrosine Kinases
In vitro	Treatment of Jurkat cells with 2 μM PF-06465469 for 24 hours reduced intracellular ITK phosphorylation levels and inhibited the migratory response of Jurkat cells to CXCL12 [1]. When the concentration of PF-06465469 was 1 μM, it significantly downregulated the expression levels of CD69, PD-1, and LAG-3 molecules in CAR-T cells co-cultured with MEC1 cells [2].

Solubility Information

Solubility	DMSO: 8.5 mg/mL (16.23 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	1.9097 mL	9.5487 mL	19.0975 mL
5 mM	0.3819 mL	1.9097 mL	3.8195 mL
10 mM	0.191 mL	0.9549 mL	1.9097 mL
50 mM	0.0382 mL	0.191 mL	0.3819 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

Mamand S, et al. Comparison of interleukin-2-inducible kinase (ITK) inhibitors and potential for combination therapies for T-cell lymphoma. Sci Rep. 2018 Sep 21;8(1):14216.

Fu Z, et al. IL-2-inducible T cell kinase deficiency sustains chimeric antigen receptor T cell therapy against tumor cells. J Clin Invest. 2024 Nov 26;135(4):e178558.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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