

BI-4464

Chemical Properties

CAS No. : 1227948-02-8

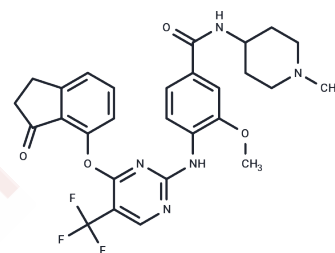
Formula: C₂₈H₂₈F₃N₅O₄

Molecular Weight: 555.55

Keep away from direct sunlight

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	BI-4464 is a highly selective inhibitor targeting focal adhesion kinase (FAK). BI-4464 effectively blocks the catalytic activity of FAK by competitively binding to the ATP-binding site, with an IC ₅₀ of 17 nM. In addition to its role as a kinase inhibitor, BI-4464 can also serve as a FAK-targeting ligand (warhead) for PROTAC design. By conjugation with an E3 ligase ligand via an appropriate linker, the resulting PROTAC molecule can induce the selective degradation of FAK through the ubiquitin-proteasome pathway, providing a valuable tool for cancer biology and related disease research.
Targets(IC50)	FAK,Ligands for Target Protein for PROTAC

Solubility Information

Solubility	DMSO: 16.67 mg/mL (30.01 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	1.800 mL	9.0001 mL	18.0002 mL
5 mM	0.360 mL	1.800 mL	3.600 mL
10 mM	0.180 mL	0.900 mL	1.800 mL
50 mM	0.036 mL	0.180 mL	0.360 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

Popow J, et al. Highly Selective PTK2 Proteolysis Targeting Chimeras to Probe Focal Adhesion Kinase Scaffolding Functions. J Med Chem. 2019 Mar 14;62(5):2508-2520.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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