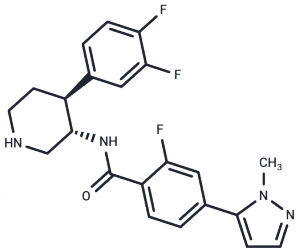
Data Sheet (Cat.No.T39733)

TargetMol

Hu7691 free base

Chemical Properties



CAS No. : 2241232-43-7

Formula: C22H21F3N4O

Molecular Weight: 414.423

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	Hu7691 free base is an orally active, potent, and selective Akt inhibitor with anti-proliferative and neurogenic effects on various neuroblastoma cell lines. It inhibits Akt1, Akt2, and Akt3, and induces differentiation of neuroblastoma cells.
Targets(IC50)	Akt,PKA,PKC,ROCK,S6 Kinase,SGK
In vitro	In HaCaT cells, Hu7691 free base (2.25, 4.5, 9, 18, 36 μM; 24 hours) effectively induces a decrease in the phosphorylation level of Akt (S473)[1].
In vivo	In Balb/c mice (nu/nu, female, 3-4 weeks old, 20-25 g), Hu7691 free base (12.5, 25, 50 mg/kg; oral; once daily for 22 days) exhibited dose-dependent inhibition of tumor growth[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.413 mL	12.0651 mL	24.1301 mL
5 mM	0.4826 mL	2.413 mL	4.826 mL
10 mM	0.2413 mL	1.2065 mL	2.413 mL
50 mM	0.0483 mL	0.2413 mL	0.4826 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

Jinxin Che, et al. Discovery of N-((3 S,4 S)-4-(3,4-Difluorophenyl)piperidin-3-yl)-2-fluoro-4-(1-methyl-1 H-pyrazol-5-yl)benzamide (Hu7691), a Potent and Selective Akt Inhibitor That Enables Decrease of Cutaneous Toxicity. J Med Chem. 2021 Aug 26;64(16):1

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