Data Sheet (Cat.No.T10895)

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CSN5i-3

Chemical Properties

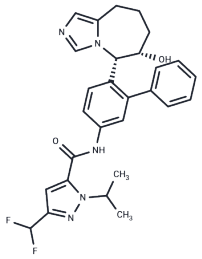
CAS No. : 2375740-98-8

Formula: C28H29F2N5O2

Molecular Weight: 505.56

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	CSN5i-3 is a novel potent oral and selective CSN5/Jab1 inhibitor that inhibits CSN-catalyzed Cul1 deneddylation with an IC50 value of 5.8 nM.CSN5i-3 exhibits anticancer activity, inhibits cell proliferation and induces apoptosis in human breast cancer cells.
Targets(IC50)	Apoptosis,Others
In vitro	CSN5i-3, by trapping CRLs in the neddylation state, effectively causes the inactivation of a specific subset of CRLs through the induction of degradation in their substrate recognition module.[1]
In vivo	CSN5i-3 exhibits a favorable pharmacokinetic profile, and its application results in the formation of cleaved PARP and cleaved caspase 3, indicating the initiation of apoptosis.[1]

Solubility Information

Solubility	DMSO: 75.83 mg/mL (150 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.978 mL	9.890 mL	19.780 mL
5 mM	0.3956 mL	1.978 mL	3.956 mL
10 mM	0.1978 mL	0.989 mL	1.978 mL
50 mM	0.0396 mL	0.1978 mL	0.3956 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

Schlierf A, et al. Targeted inhibition of the COP9 signalosome for treatment of cancer. Nat Commun. 2016 Oct 24;7: 13166.

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