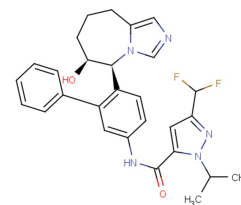


CSN5i-3

Chemical Properties

CAS No.:	T10895
Formula:	C ₂₈ H ₂₉ F ₂ N ₅ O ₂
Molecular Weight:	505.56
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	CSN5i-3 is an effective, selective, oral CSN5 inhibitor that can inhibit CSN-catalyzed Cul1 adenylation with IC ₅₀ value of 5.8 nM.
Targets(IC ₅₀)	CSN5: 5.8 nM
In vitro	CSN5i-3 traps CRLs in a glycosylated state, which leads to the inactivation of a subset of CRLs by inducing degradation of its substrate recognition module.
In vivo	CSN5i-3 shows good pharmacokinetic characteristics. CSN5i-3 inhibits the growth of human xenografts. Treatment with CSN5i-3 triggered the formation of cleaved PARP and cleaved caspase 3, indicating apoptosis induction.

Solubility Information

Solubility	DMSO: 100 mg/mL (197.80 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.978 mL	9.89 mL	19.78 mL
5 mM	0.396 mL	1.978 mL	3.956 mL
10 mM	0.198 mL	0.989 mL	1.978 mL
50 mM	0.04 mL	0.198 mL	0.396 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

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

Inhibitors · Natural Compounds · Compound Libraries

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