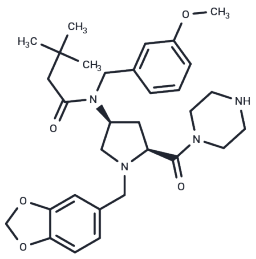
Data Sheet (Cat.No.T15019)

TargetMol

CUR61414

Chemical Properties



CAS No. : 334998-36-6

Formula: C31H42N4O5

Molecular Weight: 550.69

Storage: Store at low temperature,Keep away from direct sunlight,The compound is unstable in solution. Please use soon
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	CUR61414 is a cell-permeable inhibitor of Hedgehog signaling pathway (IC50 =100-200 nM) and selectively binds to smoothened (Ki = 44 nM).
Targets(IC50)	Apoptosis,Hedgehog/Smoothened,Smo
In vitro	CUR61414 arrests the proliferation of basal cells within the BCC-like lesions and induces cell apoptosis and complete regression of the lesions, without affecting neighboring non-tumor cells[1].
In vivo	CUR61414 regresses these lesions in the mice exposed to UV light irradiation and produces many microscopic BCC-like basaloid lesions throughout their skin[1].

Solubility Information

Solubility	DMSO: 90.9 mg/mL (165.07 mM),Sonication is recommended. The compound is unstable in solution. Please use soon. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8159 mL	9.0795 mL	18.159 mL
5 mM	0.3632 mL	1.8159 mL	3.6318 mL
10 mM	0.1816 mL	0.908 mL	1.8159 mL
50 mM	0.0363 mL	0.1816 mL	0.3632 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

Williams JA, et al. Identification of a small molecule inhibitor of the hedgehog signaling pathway: effects on basal cell carcinoma-like lesions.Proc Natl Acad Sci U S A. 2003 Apr 15;100(8):4616-21. Epub 2003 Apr 4.
Frank-Kamenetsky M, et al. Small-molecule modulators of Hedgehog signaling: identification and characterization of Smoothened agonists and antagonists.J Biol. 2002 Nov 6;1(2):10.