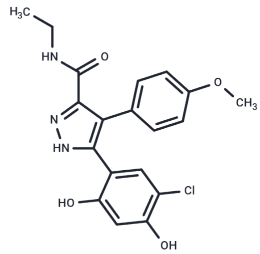
Data Sheet (Cat.No.T3454)

TargetMol

VER-49009

Chemical Properties



CAS No. :	558640-51-0
Formula:	C19H18ClN3O4
Molecular Weight:	387.82
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	VER-49009 (CCT 129397) is a potent Hsp90 inhibitor(IC50 of 25 nM and Kd of 78 nM).
Targets(IC50)	HSP
In vitro	VER-49009 inhibited the proliferation of hepatic stellate cell line CFSC cells, and both of them induced G2 phase arrest in CFSC cells[1].
In vivo	Treatmented with VER-49009 results in clear depletion of ERBB2 at 3 and 8 h following the final dose, with client protein levels returning to normal by 24 h, in the athymic mice bearing well-established OVCAR3 human ovarian ascites tumors[2].
Kinase Assay	Fluorescence Polarization Assay: Binding of HSP90 inhibitors to human full-length recombinant HSP90β is determined by a competitive binding fluorescence polarization assay, using a fluorescent pyrazole resorcinol probe.
Cell Research	Antiproliferative effects are measured using the sulforhodamine B assay. HUVEC sensitivity is determined by an alkaline phosphatase method. (Only for Reference)

Solubility Information

Solubility	DMSO: 100 mg/mL (257.85 mM),Sonication is recommended. H2O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (10.31 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5785 mL	12.8926 mL	25.7852 mL
5 mM	0.5157 mL	2.5785 mL	5.157 mL
10 mM	0.2579 mL	1.2893 mL	2.5785 mL
50 mM	0.0516 mL	0.2579 mL	0.5157 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

Sun X, et al. Inhibition of hepatic stellate cell proliferation by heat shock protein 90 inhibitors in vitro. Mol Cell Biochem. 2009 Oct;330(1-2):181-5.

Sharp SY, et al. Inhibition of the heat shock protein 90 molecular chaperone in vitro and in vivo by novel, synthetic, potent resorcinylic pyrazole/isoxazole amide analogues. Mol Cancer Ther. 2007 Apr;6(4):1198-211.

Dymock BW, et al. Novel, potent small-molecule inhibitors of the molecular chaperone Hsp90 discovered through structure-based design. J Med Chem. 2005 Jun 30;48(13):4212-5.

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