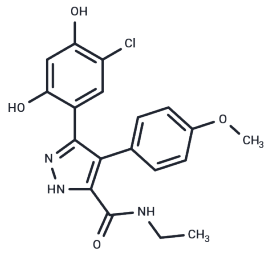
Data Sheet (Cat.No.T2268)

TargetMol

VER49009

Chemical Properties



CAS No. : 940289-57-6

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	VER49009 (CCT0129397) is an effective HSP90 inhibitor(IC50 =25 nM, Kd=78 nM).
Targets(IC50)	HSP
In vitro	In the human ovarian tumor model, intraperitoneal injection of VER-49009 (4 mg/kg) can induce the dissociation of HSP90 and ERBB2. In athymic mice, intravenous injection of VER-49009 (20 mg/kg) demonstrates efficacy.
In vivo	VER-49009 can induce the dissociation of HSP72 and HSP27 from their binding proteins, leading to cell cycle arrest. In recombinant yeast Hsp90 protein (IC50 = 167 nM), VER-49009 inhibits the endogenous ATPase activity. During the treatment of liver fibrosis, VER-49009 induces the accumulation of hepatic stellate cells (CFSC) in the G2 phase, inhibiting cell growth.
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	H2O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 71 mg/mL (183.07 mM),Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)

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

Sharp SY, et al. Mol Cancer Ther. 2007, 6(4), 1198-1211.
Sun X, et al. Mol Cell Biochem. 2009, 330(1-2), 181-185