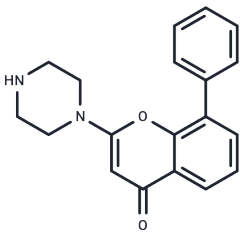
Data Sheet (Cat.No.T4423)

TargetMol

LY 303511 hydrochloride

Chemical Properties



CAS No. : 2070014-90-1

Formula: C19H19ClN2O2

Molecular Weight: 342.82

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	LY 303511 hydrochloride is a potent mTOR inhibitor
Targets(IC50)	mTOR,Potassium Channel,TNF
In vitro	LY303511 enhances TRAIL sensitivity of SHEP-1 neuroblastoma cells via hydrogen peroxide-mediated mitogen-activated protein kinase activation and up-regulation of death receptors. LY303511 amplifies TRAIL-induced apoptosis in tumor cells by enhancing DR5 oligomerization, DISC assembly, and mitochondrial permeabilization. LY303511 acts via phosphatidylinositol 3-kinase-independent pathways to inhibit cell proliferation via mammalian target of rapamycin (mTOR)- and non-mTOR-dependent mechanisms.

Solubility Information

Solubility	DMSO: 50 mg/mL (145.85 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.83 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	2.917 mL	14.5849 mL	29.1698 mL
5 mM	0.5834 mL	2.917 mL	5.834 mL
10 mM	0.2917 mL	1.4585 mL	2.917 mL
50 mM	0.0583 mL	0.2917 mL	0.5834 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

Shi Y,etal.Computational modelling of LY303511 and TRAIL-induced apoptosis suggests dynamic regulation of cFLIP.Bioinformatics. 2013 Feb 1;29(3):347-54.
Tucker-Kellogg L,etal.Reactive oxygen species (ROS) and sensitization to TRAIL-induced apoptosis, in Bayesian network modelling of HeLa cell response to LY303511.Biochem Pharmacol. 2012 Nov 15;84(10):1307-17.
Shenoy K,etal.LY303511 enhances TRAIL sensitivity of SHEP-1 neuroblastoma cells via hydrogen peroxide-mediated mitogen-activated protein kinase activation and up-regulation of death receptors.Cancer Res. 2009 Mar 1;69(5):1941-50.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481