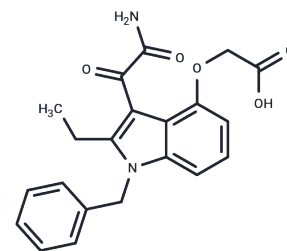


Varespladib

Chemical Properties

CAS No. :	172732-68-2
Formula:	C ₂₁ H ₂₀ N ₂ O ₅
Molecular Weight:	380.39
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	Varespladib (LY315920), a specific and effective human non-pancreatic secretory phospholipase A2 (hnsPLA) inhibitor (IC ₅₀ =7 nM), has been investigated for the treatment and prevention of sickle cell disease, vaso-occlusive crisis, and acute coronary syndrome.
Targets(IC ₅₀)	Phospholipase
In vitro	In transgenic mice expressing human sPLA ₂ , oral or intravenous administration of LY315920 (0.3-3 mg/kg) effectively inhibits serum sPLA ₂ activity in a dose-dependent manner.
In vivo	In the absence of human sPLA ₂ in BAL cells, LY315920 (0.1 μM-3 μM) effectively suppresses thrombus formation regulated by human sPLA ₂ in a concentration-dependent manner. Additionally, in a human conjunctival epithelial cell line, LY315920 (10 μM) significantly inhibits the expression of membrane-bound mucin MUC16 induced by all-trans-retinoic acid (RA). LY315920 also markedly inhibits sPLA ₂ activity across various animal serums, demonstrated by its IC ₅₀ values: 8.1 nM in rats, 5.0 nM in rabbits, 3.2 nM in guinea pigs, and 6.2 nM in humans.

Solubility Information

Solubility	DMSO: 60 mg/mL (157.73 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	2.6289 mL	13.1444 mL	26.2888 mL
5 mM	0.5258 mL	2.6289 mL	5.2578 mL
10 mM	0.2629 mL	1.3144 mL	2.6289 mL
50 mM	0.0526 mL	0.2629 mL	0.5258 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

Draheim SE, et al. *J Med Chem.* 1996, 39(26), 5159-5175.

Tan C H, Lingam T M C, Tan K Y. Varespladib (LY315920) rescued mice from fatal neurotoxicity caused by venoms of five major Asiatic kraits (*Bungarus spp.*) in an experimental envenoming and rescue model. *Acta Tropica.* 2021: 106289.

Snyder DW, et al. *J Pharmacol Exp Ther.* 1999, 288(3), 1117-1124.

Hori Y, et al. *Invest Ophthalmol Vis Sci.* 2005, 46(11), 4050-4061.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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