

CAY10650

Chemical Properties

CAS No. : 1233706-88-1

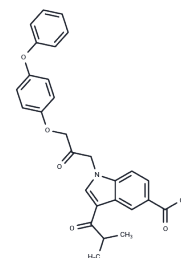
Formula: C₂₈H₂₅N₀O₆

Molecular Weight: 471.5

Store at low temperature

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	CAY10650 is an effective inhibitor of cytosolic phospholipase A ₂ α (cPLA ₂ α, IC ₅₀ : 12 nM).
Targets(IC ₅₀)	Phospholipase
In vivo	CAY10650 demonstrates strong anti-inflammatory effects when applied topically at a dose of 0.1 mg/ear in a mouse model of acute irritant contact dermatitis. Chinese hamsters (n = 6/group) were infected with parasite-laden contact lenses and treated with cPLA ₂ α inhibitors (AACOCF3 and CAY10650) 50 μg/5 μl was injected with topical eye-drop under the contact lens of an infected cornea three times a day for 6 days and topically on days 7–14 postinfection. Animals were anesthetized and sacrificed 15 days after the application of cPLA ₂ α inhibitors. Treatment with the AACOCF3 and CAY10650 had a profound effect on the severity and chronicity of keratitis. In addition, hamsters treated with AACOCF3 had significantly less severe keratitis as compared with the CAY10650 group.

Solubility Information

Solubility	DMSO: 40 mg/mL (84.84 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 (4.24 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1209 mL	10.6045 mL	21.2089 mL
5 mM	0.4242 mL	2.1209 mL	4.2418 mL
10 mM	0.2121 mL	1.0604 mL	2.1209 mL
50 mM	0.0424 mL	0.2121 mL	0.4242 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

Tripathi T, et al. Role of phospholipase A 2(PLA2) inhibitors in attenuating apoptosis of the corneal epithelial cells and mitigation of Acanthamoeba keratitis. Exp Eye Res. 2013 Aug;113:182-91.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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