

Rodatristat ethyl

Chemical Properties

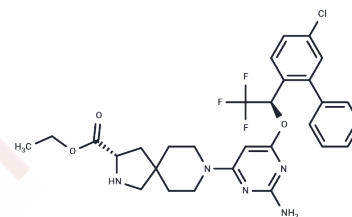
CAS No. : 1673571-51-1

Formula: C₂₉H₃₁ClF₃N₅O₃

Molecular Weight: 590.04

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	Rodatristat ethyl (KAR5585) is a groundbreaking, orally active, and potent inhibitor of tryptophan hydroxylase 1 (TPH1) that significantly reduces 5-hydroxytryptamine (5-HT) levels and decreases pulmonary arterial hypertension (PAH) at low concentrations.
Targets(IC50)	5-HT Receptor,Hydroxylase
In vivo	In male Sprague-Dawley rats, oral administration of rodatristat ethyl at doses of 100 or 200 mg/kg once daily for 28 days results in a dose-dependent decrease in serum, gut, and lung 5-HT levels. This treatment significantly reduces pulmonary arterial pressure as well as pulmonary vessel wall thickness and occlusion in rats with monocrotaline (MCT)-induced pulmonary hypertension[2].

Solubility Information

Solubility	DMSO: 90 mg/mL (152.53 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (5.59 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	1.6948 mL	8.474 mL	16.948 mL
5 mM	0.339 mL	1.6948 mL	3.3896 mL
10 mM	0.1695 mL	0.8474 mL	1.6948 mL
50 mM	0.0339 mL	0.1695 mL	0.339 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

Alice Melão, MSc. Early Results on Rodatristat Ethyl Support Launch of Phase 2 Trial in PAH Patients. FEBRUARY 4, 2019.

Aiello RJ, et al. Tryptophan hydroxylase 1 Inhibition Impacts Pulmonary Vascular Remodeling in Two Rat Modelsof Pulmonary Hypertension. J Pharmacol Exp Ther. 2017 Feb;360(2):267-279.

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