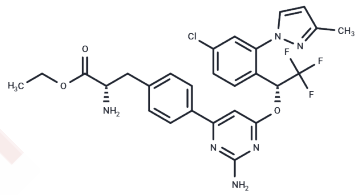
Data Sheet (Cat.No.T11897)

TargetMol

Telotristat ethyl

Chemical Properties



CAS No. : 1033805-22-9

Formula: C27H26ClF3N6O3

Molecular Weight: 574.98

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	Telotristat ethyl (LX1606) is a orally-delivered inhibitor of tryptophan hydroxylase that reduces serotonin production.
Targets(IC50)	Hydroxylase
In vivo	Telotristat ethyl, at a dosage of 200 mg/kg administered orally once daily, has been shown to protect against inflammatory bowel disease (IBD) in mice, as evidenced by histopathology evaluations[1] and by alleviating the severity of colitis induced by trinitrobenzene sulfonic acid (TNBS)[2]. At various dosages (15, 50, 150, 300 mg/kg), Telotristat ethyl effectively reduces serotonin (5-HT) levels in the jejunum, though it does not affect serotonin levels in the brain or impact the enteric neuronal serotonin nor constitutive gastrointestinal motility at a 200 mg/kg dosage. Additionally, it prevents the TNBS-induced increase in blood neutrophil counts, highlighting its significant protective role in a mouse model of IBD, without altering serotonin content within the brain, even at differing concentrations (15, 50, 150, 300 mg/kg, administered orally once daily).

Solubility Information

Solubility	DMSO: 115 mg/mL (200.01 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: 3.3 mg/mL (5.74 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	1.7392 mL	8.696 mL	17.3919 mL
5 mM	0.3478 mL	1.7392 mL	3.4784 mL
10 mM	0.1739 mL	0.8696 mL	1.7392 mL
50 mM	0.0348 mL	0.1739 mL	0.3478 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

Tamas Oravecz, et al. LX1606 (aka LX1032), a Novel Inhibitor of Serotonin Synthesis, Alleviates Development of Inflammatory Bowel Disease in a Preclinical Model.
Margolis, K.G., et al., Pharmacological reduction of mucosal but not neuronal serotonin opposes inflammation in mouse intestine. Gut, 2013.

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