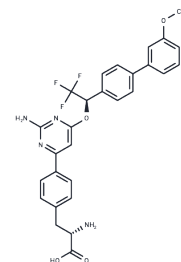


LX-1031

Chemical Properties

CAS No. : 945976-76-1
 Formula: C₂₈H₂₅F₃N₄O₄
 Molecular Weight: 538.52
 Storage: Store at low temperature
 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	LX-1031 is an effective inhibitor of tryptophan 5-hydroxylase. LX-1031 decreases serotonin (5-HT) synthesis peripherally.
Targets(IC50)	Hydroxylase,LPA Receptor
In vivo	LX-1031 reduces the expression of 5-HT in the duodenum, jejunum, and ileum in a dose-dependent manner, but has no effect on brain 5-HT levels in preclinical assay[1]. The average 5-HT reductions in the jejunum relative to control are approx 33, 51, and 66%

Solubility Information

Solubility	DMSO: 30 mg/mL (55.71 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 (3.71 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	1.8569 mL	9.2847 mL	18.5694 mL
5 mM	0.3714 mL	1.8569 mL	3.7139 mL
10 mM	0.1857 mL	0.9285 mL	1.8569 mL
50 mM	0.0371 mL	0.1857 mL	0.3714 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

Camilleri M. LX-1031, a tryptophan 5-hydroxylase inhibitor that reduces 5-HT levels for the potential treatment of irritable bowel syndrome. *IDrugs*. 2010 Dec;13(12):921-8.

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