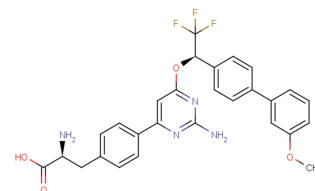


LX-1031

## Chemical Properties

CAS No.:	945976-76-1
Formula:	C <sub>28</sub> H <sub>25</sub> F <sub>3</sub> N <sub>4</sub> O <sub>4</sub>
Molecular Weight:	538.52
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	LX-1031 is an effective and orally available inhibitor of tryptophan 5-hydroxylase (TPH). It also decreases serotonin (5-HT) synthesis peripherally.
Targets(IC <sub>50</sub> )	Others: None
In vivo	The effects of LX-1031, 100 mg/kg daily, on 5-HT levels in jejunal mucosa are reversible within 2 days of discontinuation in mice[1]. LX-1031 dose-dependently decreases expression of 5-HT in the duodenum, jejunum, and ileum, but has no effect on brain 5-HT levels in preclinical assay[2]. LX-1031 (p.o.; in mice), the average 5-HT reductions in the jejunum relative to control are approx 33, 51, and 66% with the 15, 45 and 135 mg/kg/day doses respectively.

## Solubility Information

Solubility	DMSO: 34 mg/mL (63.14 mM) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.857 mL	9.285 mL	18.569 mL
5 mM	0.371 mL	1.857 mL	3.714 mL
10 mM	0.186 mL	0.928 mL	1.857 mL
50 mM	0.037 mL	0.186 mL	0.371 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

### Reference

- Camilleri M. LX-1031, a tryptophan 5-hydroxylase inhibitor, and its potential in chronic diarrhea associated with increased serotonin. *Neurogastroenterol Motil.* 2011 Mar;23(3):193-200.
- 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.

Inhibitors · Natural Compounds · Compound Libraries

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