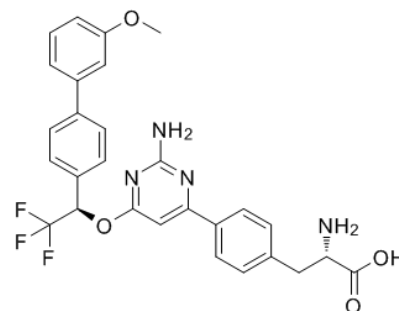


Product Name : LX-1031
Cat. No. : PC-43351
CAS No. : 945976-76-1
Molecular Formula : C₂₈H₂₅F₃N₄O₄
Molecular Weight : 538.5177
Target : Tryptophan Hydroxylase (TPH)
Solubility : DMSO: ≥ 34 mg/mL



Biological Activity

LX-1031 is a potent, orally active tryptophan 5-hydroxylase (TPH) inhibitor with potency of 10-100 nM, reduces 5-HT synthesis peripherally; dose-dependently reduces expression of 5-HT in the duodenum, jejunum and ileum, but had no effect on brain 5-HT levels, significantly reduces urinary 5-hydroxyindoleacetic acid (5-HIAA) in vivo; exhibits potential for illnesses characterized by excess 5-HT, such as diarrhea-predominant irritable bowel syndrome (IBS-D) and carcinoid diarrhea.

Irritable Bowel Syndrome

Phase 2 Discontinued

References

Camilleri M. *IDrugs*. 2010 Dec;13(12):921-8.

Camilleri M. *Neurogastroenterol Motil*. 2011 Mar;23(3):193-200.

Brown PM, et al. *Gastroenterology*. 2011 Aug;141(2):507-16.

Shi ZC, et al. *J Med Chem*. 2008 Jul 10;51(13):3684-7.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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