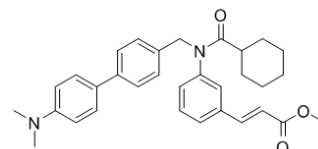


Data Sheet

Product Name:	Fexaramine
Cat. No.:	HY-10912
CAS No.:	574013-66-4
Molecular Formula:	C ₃₂ H ₃₆ N ₂ O ₃
Molecular Weight:	496.64
Target:	FXR
Pathway:	Metabolic Enzyme/Protease
Solubility:	10 mM in DMSO



BIOLOGICAL ACTIVITY:

Fexaramine is a small molecule farnesoid X receptor (FXR) agonist with 100-fold increased affinity relative to natural compounds. IC50 value:

Target:
in vitro: In vitro treatment of CDCA or fexaramine elevated the SHP transcript level and occupancy on secretin promoter [1].

Fexaramine significantly enhanced osteoblastic differentiation through the upregulation of Runx2 and enhanced extracellular signal-regulated kinase (ERK) and β -catenin signaling [2]. By mimicking this tissue-selective effect, the gut-restricted FXR agonist fexaramine (Fex) robustly induces enteric fibroblast growth factor 15 (FGF15), leading to alterations in BA composition, but does so without activating FXR target genes in the liver [3].

References:

- [1]. Cho SW, et al. Positive regulation of osteogenesis by bile acid through FXR. *J Bone Miner Res.* 2013 Oct;28(10):2109–21.
- [2]. Fang S, et al. Intestinal FXR agonism promotes adipose tissue browning and reduces obesity and insulin resistance. *Nat Med.* 2015 Feb;21(2):159–65.
- [3]. Lam IP, et al. Bile acids inhibit duodenal secretin expression via orphan nuclear receptor small heterodimer partner (SHP). *Am J Physiol Gastrointest Liver Physiol.* 2009 Jul;297(1):G90–7.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA