## 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; Autophagy				
Pathway:	Metabolic Enzyme/Protease; Autophagy				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	2 years		
		-20°C	1 year		

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### SOLVENT & SOLUBILITY

		Mass Solvent Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	2.0135 mL	10.0677 mL	20.1353 mL		
		5 mM	0.4027 mL	2.0135 mL	4.0271 mL		
		10 mM	0.2014 mL	1.0068 mL	2.0135 mL		
	Please refer to the so	lubility information to select the ap	propriate solvent.				
		t one by one: 5% DMSO >> 40% PEG300 >> 5% Tween-80 >> 50% saline ng/mL (5.54 mM); Suspended solution; Need ultrasonic					
Solubility: ≥ 2.5 n 3. Add each solvent	t one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline mg/mL (5.03 mM); Clear solution						
	one by one: 10% DMSO >> 90% corn oil ng/mL (5.03 mM); Clear solution						

BIOLOGICAL ACTIVITY				
Description	Fexaramine is a potent and selective FXR agonist with an EC <sub>50</sub> of 25 nM. Fexaramine has no activity against hRXRα, hPPAR αγδ, mPXR, hPXR, hLXRα, hTRβ, hRARβ, mCAR, mERRγ, and hVDR receptors <sup>[1][2]</sup> .			
In Vitro	Bile acid treatment is performed in HuTu-80 cells with Fexaramine (5, 25, and 50 μM) for 24 h. Fexaramine (50 μM) increases small heterodimer partner (SHP) transcript levels by 2.1-fold. The cells are treated with various concentrations of Fexaramine, and the endogenous secretin transcript levels are significantly reduced (33% in 50 μM Fexaramine). Fexaramine treatment also significantly suppresses secretin promoter activity by 32% <sup>[1]</sup> .			

# Product Data Sheet

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MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Fexaramine treatment of DIO mice produces a striking metabolic profile that includes reduced weight gain, decreased inflammation, browning of WAT and increased insulin sensitization<sup>[3]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

- Nat Commun. 2023 Oct 30;14(1):6908.
- J Agric Food Chem. 2022 Dec 29.
- Int J Mol Med. 2018 Sep;42(3):1723-1731.
- Mech Ageing Dev. 2022 Jan 10;202:111630.
- bioRxiv. 2023 Nov 21.

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### REFERENCES

[1]. 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.

[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]. Michael Downes, et al. A chemical, genetic, and structural analysis of the nuclear bile acid receptor FXR. Mol Cell. 2003 Apr;11(4):1079-92.

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