

Product Name: Obeticholic Acid Revision Date: 01/10/2021

Product Data Sheet

Obeticholic Acid

Cat. No.: B4888

CAS No.: 459789-99-2 Formula: C26H44O4

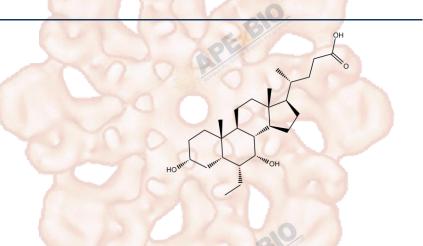
420.63

Synonyms:

M.Wt:

Target: Others
Pathway: FXR

Storage: Store at -20°C



Solvent & Solubility

≥21.5 mg/mL in DMSO; insoluble in H2O; ≥21.3 mg/mL in EtOH

In Vitro

Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
Stock Solutions	1 mM	2.3774 mL	11.8869 mL	23.7739 mL
810	5 mM	0.4755 mL	2.3774 mL	4.7548 mL
PEN	10 mM	0.2377 mL	1.1887 mL	2.3774 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

IC₅₀ & Target

FXR agonist with anticholeretic activity

Cell Viability Assay

Reacting conditions:

In Vitro

	Cell Line:	Rat hepatocytes
Preparation method:		Limited solubility. General tips for obtaining a higher concentration: Please
		warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for
		a while. Stock solution can be stored below -20°C for several months.

24 h

	Applications:	In rat hepatocytes, obeticholic acid transactivates FXR and modulates FXR		
		regulated genes, resulting in increases of Shp and bsep mRNA expression by		
		3- to 5-fold and reduction of cyp7a1, cyp8b1, and ntcp mRNA expression by 50		
		to 70% after exposure to FXR ligands.		
	Animal experiment			
In Vivo	Animal models:	Male Wistar rats weighing 200-250 g		
	Dosage form:	30 mg/kg		
	Applications:	Obeticholic acid can reactivate downstream FXR signaling pathway and		
		reduces PP in the TAA and BDL (thioacetamide (TAA)-intoxicated and		
		bile-duct-ligated) models without systemic hemodynamic impact. It also		
		restores endothelial function and reduces the total IHVR in experimental		
		cirrhosis		
	Preparation method:	Dissolved in 0.75-1.0 mL of freshly prepared methylcellulose (1%)		
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may		
	BIO	slightly differ with the theoretical value. This is caused by an experimental		
	PERMIT	system error and it is normal.		

Product Citations

- 1. Selina Costa. "Characterizing a Novel Ligand for the Farnesoid X Receptor using Transgenic Zebrafish." University of Toronto. Jun-2018.
- 2. Kent, Rebecca. "Effects of Fenofibrate on CYP2D6 and Regulation of ANG1 and RNASE4 by the FXR Agonist Obeticholic Acid." indigo.uic.edu.2017.

See more customer validations on www.apexbt.com.

References

- 1. Fiorucci S, Clerici C, Antonelli E et al. Protective effects of 6-ethyl chenodeoxycholic acid, a farnesoid X receptor ligand, in estrogen-induced cholestasis. J Pharmacol Exp Ther. 2005 May;313(2):604-12. Epub 2005 Jan 11.
- 2. Verbeke L, Farre R, Trebicka J et al. Obeticholic acid, a farnesoid X receptor agonist, improves portal hypertension by two distinct pathways in cirrhotic rats. Hepatology. 2014 Jun;59(6):2286-98.

Caution

FOR RESEARCH PURPOSES ONLY.

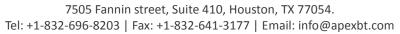
NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt



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