

## FXR agonist 3

## Chemical Properties

CAS No. :

Formula: C<sub>28</sub>H<sub>28</sub>BrNO<sub>4</sub>

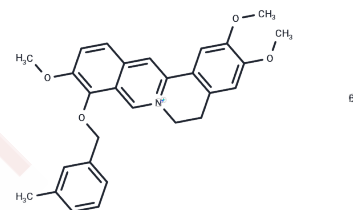
Molecular Weight: 521.12

Store at low temperature

Storage:

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	FXR agonist 3 is an anti-NASH compound with antifibrotic and anti-fibrotic activity, inhibiting the expression of COL1A1, TGF-β1, α-SMA, and TIMP1, with an IC <sub>50</sub> value of 8.19 μmol/L for COL1A1. FXR agonist 3 ameliorates CDAHFD and BDL-induced liver injury in vivo by activating FXR.
Targets(IC <sub>50</sub> )	Others,FXR
In vitro	In LX-2 cells, FXR agonist 3 (0, 2.5, 5, 7.5, and 10 μM; 24 hours; with or without 2 ng/mL TGF-β1 for another 24 hours) decreased COL1A1, TGF-β1, α-SMA, and TIMP1 protein expressions in a dose-dependent manner[1].
In vivo	In C57BL/6 N mice fed a CDAHFD diet for 16 weeks, FXR agonist 3 (200 mg/kg; oral gavage; daily for 4 weeks after CDAHFD-induced) decreased the expression of IL-1β and IL-6 in the liver[1].

## Solubility Information

Solubility	DMSO: 200 mg/mL (383.79 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.9189 mL	9.5947 mL	19.1894 mL
5 mM	0.3838 mL	1.9189 mL	3.8379 mL
10 mM	0.1919 mL	0.9595 mL	1.9189 mL
50 mM	0.0384 mL	0.1919 mL	0.3838 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Zhang N, et al. Discovery and development of palmatine analogues as anti-NASH agents by activating farnesoid X receptor (FXR). Eur J Med Chem. 2023 Jan 5;245(Pt 1):114886.

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