Product Data Sheet

Fezagepras sodium

Cat. No.: HY-100775 CAS No.: 1254472-97-3 Molecular Formula: C₁₃H₁₇NaO₂ Molecular Weight: 228.26

Target: Free Fatty Acid Receptor; GPR84

Pathway: GPCR/G Protein

4°C, sealed storage, away from moisture Storage:

* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro $H_2O : \ge 100 \text{ mg/mL} (438.10 \text{ mM})$

DMSO: \geq 64 mg/mL (280.38 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	4.3810 mL	21.9048 mL	43.8097 mL
	5 mM	0.8762 mL	4.3810 mL	8.7619 mL
	10 mM	0.4381 mL	2.1905 mL	4.3810 mL

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

In Vivo

- 1. Add each solvent one by one: PBS Solubility: 120 mg/mL (525.72 mM); Clear solution; Need ultrasonic
- 2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (9.11 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (9.11 mM); Clear solution
- 4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (9.11 mM); Clear solution

BIOLOGICAL ACTIVITY

Fezagepras (Setogepram) sodium acts as an orally active agonist for GPR40 and as an antagonist or inverse agonist for Description

GPR84^[1]. Fezagepras sodium decreases renal, liver and pancreatic fibrosis^{[1][2]}. Fezagepras sodium exerts anti-fibrotic, anti-

inflammatory and anti-proliferative actions^[2].

GPR40, GPR84^[1] IC₅₀ & Target

In Vitro

Fezagepras sodium (500 μ M; 24 hours) inhibits TGF- β (10 ng/mL)-activated human hepatic stellate cells (HSCs) proliferation [2]

Fezagepras sodium (250 or 500 μ M; 24 hours) dose-dependently arrests HSCs at the G0/G1 phase without inducing apoptosis [2]

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

Cell Proliferation Assay^[2]

Concentration:

Incubation Time:

Result:

Cell Line:	HSCs	
Concentration:	250 or 500 μM	
Incubation Time:	24 hours	
Result:	Inhibited TGF- β -activated HSC proliferation. TGF- β (10 ng/mL) increased HSC proliferation by 10%.	
Cell Cycle Analysis ^[2]		
Cell Line:	HSCs	

In Vivo

Fezagepras sodium (100 mg/kg/day; gavage from 8-20 weeks of age) markedly decreases hyperglycemia and markedly improve glucose tolerance in type 2 diabetes $eNOS^{-/-}db/db$ mice^[1].

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Inhibited cell cycle progression.

 $250 \mu M, 500 \mu M$

24 hours

Animal Model:	Type 2 diabetes eNOS ^{-/-} db/db mice ^[1]	
Dosage:	100 mg/kg/day	
Administration:	Given via daily gavage from 8-20 weeks	
Result:	Compared with vehicle-treated mice, hyperglycemia was markedly decreased, and glucose tolerance was markedly improved.	

REFERENCES

[1]. Li Y, et al. Fatty acid receptor modulator PBI-4050 inhibits kidney fibrosis and improves glycemic control. JCI Insight. 2018 May 17;3(10). pii: 120365.

[2]. Grouix B, et al. PBI-4050 Reduces Stellate Cell Activation and Liver Fibrosis through Modulation of Intracellular ATP Levels and the Liver Kinase B1/AMP-Activated Protein Kinase/Mammalian Target of Rapamycin Pathway. J Pharmacol Exp Ther. 2018 Oct;367(1):71-81.

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