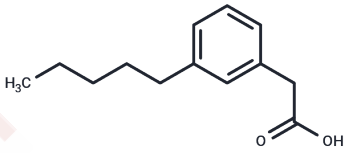
Data Sheet (Cat.No.T12883)

TargetMol

Fezagepras

Chemical Properties



CAS No. : 1002101-19-0

Formula: C13H18O2

Molecular Weight: 206.28

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Fezagepras (Setogepram) is an orally active GPR40 agonist and is an antagonist or inverse agonist of GPR84 with anti-inflammatory, anti-fibrotic, and anti-proliferative actions.
Targets(IC50)	GPCR
In vitro	TGF-β (10 ng/mL)-activated human hepatic stellate cells (HSCs) proliferation inhibited by Setogepram (PBI-4050; 500 μM; 24 hours). Setogepram (PBI-4050; 250 or 500 μM; 24hours) dose-dependently arrests HSCs at the G0/G1 phase without inducing apoptosis [2].
In vivo	In type 2 diabetes eNOS-/-db/db mice, Setogepram (PBI-4050; 100 mg/kg/day; gavage from 8-20 weeks of age) markedly decreases hyperglycemia and markedly improve glucose tolerance [1].

Solubility Information

Solubility	DMSO: 60 mg/mL (290.87 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 5 mg/mL (24.24 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.8478 mL	24.2389 mL	48.4778 mL
5 mM	0.9696 mL	4.8478 mL	9.6956 mL
10 mM	0.4848 mL	2.4239 mL	4.8478 mL
50 mM	0.097 mL	0.4848 mL	0.9696 mL

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

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.
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.

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