

AM-1638

Chemical Properties

CAS No. : 1142214-62-7

Formula: C₃₃H₃₅F₀₄

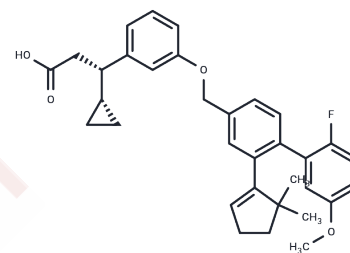
Molecular Weight: 514.63

Keep away from direct sunlight, 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	AM-1638 is an orally active GPR40/FFA1 agonist, useful for studying type II diabetes.
Targets(IC50)	GPCR
In vivo	<p>Methods: AM-1638 (1 mg/kg, IV) and (5 mg/kg, oral) were administered to mice; AM-1638 (0.5 mg/kg, IV) and (2 mg/kg, oral) were administered to rats; and AM-1638 (0.5 mg/kg, IV) and (2 mg/kg, oral) were administered to cynomolgus monkeys for pharmacokinetic studies.</p> <p>Results: Oral administration of AM-1638 showed excellent oral bioavailability (mice, >100%; rats, 72%; cynomolgus monkeys, 71%); and showed antidiabetic activity in BDF/DIO mice.[1]</p>

Solubility Information

Solubility	DMSO: 80 mg/mL (155.45 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	<p>10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (6.41 mM), Sonication is recommended.</p> <p><i>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.</i></p>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9431 mL	9.7157 mL	19.4314 mL
5 mM	0.3886 mL	1.9431 mL	3.8863 mL
10 mM	0.1943 mL	0.9716 mL	1.9431 mL
50 mM	0.0389 mL	0.1943 mL	0.3886 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

Brown SP, et al. Discovery of AM-1638: A Potent and Orally Bioavailable GPR40/FFA1 Full Agonist. ACS Med Chem Lett. 2012 Aug 15;3(9):726-30.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481