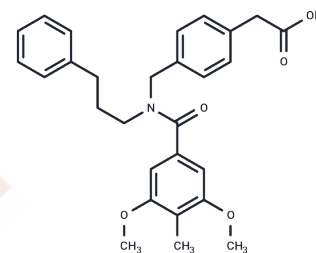


ONO-7300243

Chemical Properties

CAS No. : 638132-34-0
 Formula: C₂₈H₃₁N₅
 Molecular Weight: 461.55
 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	ONO-7300243 is an antagonist of lysophosphatidic acid receptor 1 (LPA1; IC ₅₀ : 0.16 μM).
Targets(IC ₅₀)	LPA Receptor, LPL Receptor
In vivo	The oral administration of ONO-7300243 (17a) to determine its effect on rat IUP. Compound 17a inhibited the LPA-induced IUP increase in a dose-dependent manner (ID ₅₀ = 11.6 mg/kg p.o.) up to 1 h after dosing. Significant effects were observed at 10 and 30 mg/kg (p < 0.05 vs vehicle). ONO-7300243 (17a) (30 mg/kg, p.o.) led to a significant decrease in the IUP in conscious rats without LPA stimulation compared with the vehicle without affecting the mean blood pressure (MBP)[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (216.66 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (8.67 mM), Sonication is recommended. <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>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1666 mL	10.8331 mL	21.6661 mL
5 mM	0.4333 mL	2.1666 mL	4.3332 mL
10 mM	0.2167 mL	1.0833 mL	2.1666 mL
50 mM	0.0433 mL	0.2167 mL	0.4333 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

Terakado M , Suzuki H , Hashimura K , et al. Discovery of ONO-7300243 from a novel class of Lysophosphatidic Acid Receptor 1 antagonists: From hit to lead.[J]. ACS Medicinal Chemistry Letters, 2016:acsmedchemlett.6b00225.
Terakado M , Suzuki H , Hashimura K , et al. Discovery of a Slow Tight Binding LPA1 Antagonist (ONO-0300302) for the Treatment of Benign Prostatic Hyperplasia[J]. ACS Medicinal Chemistry Letters, 2017:acsmedchemlett.7b00383.

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