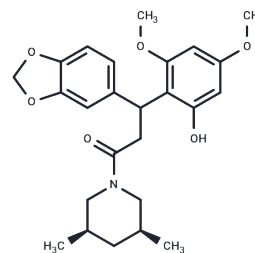


ML 209

Chemical Properties

CAS No. : 1334526-14-5
 Formula: C₂₅H₃₁N₂O₆
 Molecular Weight: 441.52
 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	ML-209 is an antagonist of retinoic acid receptor-related orphan receptor γ t (ROR γ t; IC ₅₀ = 1.1 μ M in a reporter assay). It inhibits ROR γ t-induced transcription in HEK293T cells expressing the human receptor (IC ₅₀ = 300 nM). ML-209 inhibits ROR γ t-dependent differentiation of isolated naive cord blood human CD4 ⁺ T cells into Th17 T helper cells.
Targets(IC ₅₀)	ROR

Solubility Information

Solubility	DMSO: 18.33 mg/mL (41.52 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 1.5 mg/mL (3.4 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	2.2649 mL	11.3245 mL	22.649 mL
5 mM	0.453 mL	2.2649 mL	4.5298 mL
10 mM	0.2265 mL	1.1325 mL	2.2649 mL
50 mM	0.0453 mL	0.2265 mL	0.453 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

Huh, J.R., Englund, E.E., Wang, H., et al. Identification of potent and selective diphenylpropanamide ROR γ inhibitors ACS Med. Chem. Lett. 4(1)79-84(2013)

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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