(±)-ML 209

Cat. No.: HY-126037

CAS No.: 1334526-14-5

Molecular Formula: $C_{25}H_{31}NO_6$

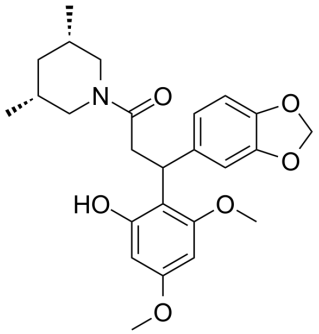
Molecular Weight: 441.52

Target: ROR

Pathway: Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor

Storage:

Powder	-20°C	3 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (226.49 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2649 mL	11.3245 mL	22.6490 mL
	5 mM	0.4530 mL	2.2649 mL	4.5298 mL
	10 mM	0.2265 mL	1.1325 mL	2.2649 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.66 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(±)-ML 209 (compound 4n), a diphenylpropanamide, is a retinoic acid-related orphan receptor RORγ antagonist with an IC_{50} of 1.1 μM. (±)-ML 209 inhibits RORγt transcriptional activity with an IC_{50} of 300 nM in HEK293t cells. (±)-ML 209 inhibits the transcriptional activity of RORγt, but not RORα in cells. (±)-ML 209 selectively inhibits murine Th17 cell differentiation without affecting the differentiation of naïve $CD4^+$ T cells into other lineages, including Th1 and regulatory T cells[1].

IC_{50} & Target

RORγ

1.1 μM (IC_{50})

CUSTOMER VALIDATION

- Antiviral Res. 2023 Dec 4:105769.

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REFERENCES

[1]. Jun R Huh, et al. Identification of Potent and Selective Diphenylpropanamide RORγ Inhibitors. ACS Med Chem Lett. 2013 Jan 10;4(1):79-84.

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