(±)-ML 209

Cat. No.: HY-126037

CAS No.: 1334526-14-5

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

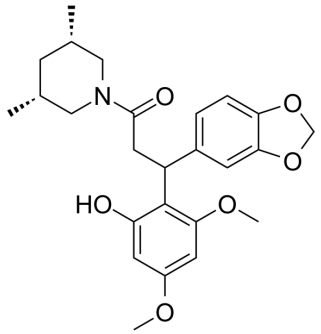
Molecular Weight: 441.52

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	Mass / Solvent / 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.

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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