MRL-871

Cat. No.: HY-119464

CAS No.: 1392809-08-3

Molecular Formula: $C_{22}H_{12}ClF_3N_2O_3$

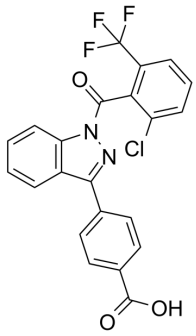
Molecular Weight: 444.79

Target: ROR

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

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (56.21 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2483 mL	11.2413 mL	22.4825 mL
	5 mM	0.4497 mL	2.2483 mL	4.4965 mL
	10 mM	0.2248 mL	1.1241 mL	2.2483 mL

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

BIOLOGICAL ACTIVITY

Description

MRL-871 (compound 3) is a potent and allosteric retinoic acid receptor-related orphan receptor γt (RORγt) inverse agonists with an IC_{50} of 12.7 nM. MRL-871 has a distinct isoxazole chemotype and effectively reduces IL-17a mRNA production in EL4 cells[1].

In Vitro

MRL-871 (compound 3; 10 μM, 24h) significantly reduces IL-17a mRNA expression 48-fold in EL4 cells[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Meijer FA, et, al. Ligand-Based Design of Allosteric Retinoic Acid Receptor-Related Orphan Receptor γt (RORγt) Inverse Agonists. J Med Chem. 2020 Jan 9;63(1):241-259.

Caution: Product has not been fully validated for medical applications. For research use only.

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