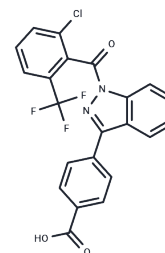


MRL-871

Chemical Properties

CAS No. : 1392809-08-3
 Formula: C₂₂H₁₂ClF₃N₂O₃
 Molecular Weight: 444.79
 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	MRL-871 is a selective ROR γ t allosteric inhibitor, reducing IL-17a mRNA production in EL4 cells, interacting with PPAR γ in partial agonistic binding modes.
Targets(IC ₅₀)	ROR
In vitro	MRL-871 is a reverse agonist of retinoic acid-associated orphan receptor γ t (ROR γ t) with a high affinity, KD value of 250 nM and IC ₅₀ of 264 nM. [1]

Solubility Information

Solubility	DMSO: 15 mg/mL (33.72 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.045 mL	0.2248 mL	0.4497 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

Leijten-van de Gevel IA, et al. Indazole MRL-871 interacts with PPAR γ via a binding mode that induces partial agonism. *Bioorg Med Chem.* 2022 Aug 15;68:116877.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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