LY2955303

Cat. No.: HY-107765

CAS No.: 1433497-19-8

Molecular Formula: $C_{36}H_{42}N_4O_3$

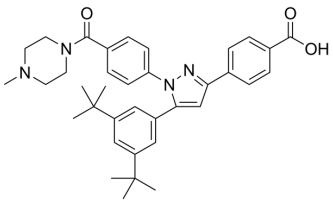
Molecular Weight: 578.74

Target: RAR/RXR; Autophagy

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

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 30 mg/mL (51.84 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.7279 mL	8.6395 mL	17.2789 mL
	5 mM	0.3456 mL	1.7279 mL	3.4558 mL
	10 mM	0.1728 mL	0.8639 mL	1.7279 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2 mg/mL (3.46 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2 mg/mL (3.46 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

LY2955303 is a potent and selective retinoic acid receptor gamma (RARγ) antagonist with a K_i of 1.09 nM.

IC_{50} & Target

Ki: 1.09 nM (RARγ)[1]

In Vitro

LY2955303 is tested and observed that the binding K_is for RARα, RARβ and RARγ are >1700, >2980 and 1.09 nM, respectively. The functional K_i for RARγ is 7.1±4.9 nM[1].

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

In Vivo

A single oral dose of LY2955303 demonstrates a dose responsive effect whereby the rat reduces differential weight bearing (ED_{50}=0.72 mg/kg)[1].

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CUSTOMER VALIDATION

- Cell Res. 2022 Jun;32(6):513-529.
- Mediators Inflamm. 2022 Nov 7;2022:1875736.

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REFERENCES

[1]. Hughes NE, et al. Identification of potent and selective retinoic acid receptor gamma (RARγ) antagonists for the treatment of osteoarthritis pain using structure based drug design. Bioorg Med Chem Lett. 2016 Jul 15;26(14):3274-3277.

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

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