(Rac)-LY-3381916

Cat. No.: HY-111540A

CAS No.: 2166616-74-4

Molecular Formula: $C_{23}H_{25}FN_2O_3$

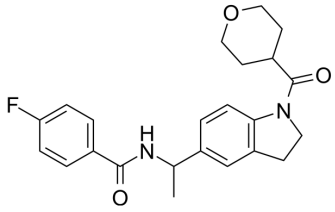
Molecular Weight: 396.45

Target: Indoleamine 2,3-Dioxygenase (IDO)

Pathway: Metabolic Enzyme/Protease

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 (63.06 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5224 mL	12.6119 mL	25.2239 mL
	5 mM	0.5045 mL	2.5224 mL	5.0448 mL
	10 mM	0.2522 mL	1.2612 mL	2.5224 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (6.31 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (6.31 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.31 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(Rac)-LY-3381916 ((Rac)-IDO1-IN-5; Example 1) is a racemate of LY-3381916[1]. LY-3381916 is a potent, selective and brain penetrated inhibitor of Indoleamine 2,3-Dioxygenase 1 (IDO1) activity, binds to apo-IDO1 lacking heme rather than mature heme-bound IDO1[2].

REFERENCES

[1]. Frank C. Dorsey, et al. Abstract 5245: Identification and characterization of the IDO1 inhibitor LY3381916. Cancer Research. 2018, 78(13).

[2]. Jolie Anne Bastian, et al. 1-tetrahydropyranylcarbonyl-2,3-dihydro-1h-indole compounds for treating cancer. WO2017213919A1.

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