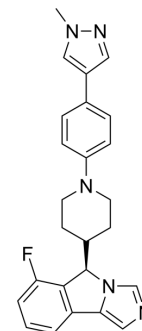


(R)-IDO/TDO-IN-1

Cat. No.:	HY-128355A
CAS No.:	2033173-00-9
Molecular Formula:	C ₂₅ H ₂₄ FN ₅
Molecular Weight:	413.49
Target:	Indoleamine 2,3-Dioxygenase (IDO)
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 10 mg/mL (24.18 mM); ultrasonic and adjust pH to 2 with HCl)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.4184 mL	12.0922 mL	24.1844 mL
	5 mM	0.4837 mL	2.4184 mL	4.8369 mL
	10 mM	0.2418 mL	1.2092 mL	2.4184 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 1 mg/mL (2.42 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 1 mg/mL (2.42 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 1 mg/mL (2.42 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(R)-IDO/TDO-IN-1 (compound 25) is an indoleamine-2,3-dioxygenase (IDO) inhibitor, with good pharmacokinetic properties. (R)-IDO/TDO-IN-1 exhibits anti-tumor activity in MC38 xenograft model. (R)-IDO/TDO-IN-1 shows synergistic effect with anti-PD-1 monoclonal antibody (SHR-1210)^[1].

REFERENCES

[1]. Tu W, Yang F, Xu G, Chi J, Liu Z, Peng W, Hu B, Zhang L, Wan H, Yu N, Jin F, Hu Q, Zhang L, He F, Tao W. Discovery of Imidazoisoindole Derivatives as Highly Potent and Orally Active Indoleamine-2,3-dioxygenase Inhibitors. ACS Med Chem Lett. 2019 Jun 3;10(6):949-953.

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

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