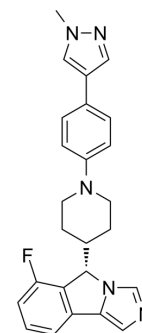


IDO/TDO-IN-1

Cat. No.:	HY-128355
CAS No.:	2033173-01-0
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 : 30 mg/mL (72.55 mM; ultrasonic and adjust pH to 2 with HCl)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.4 mg/mL (5.80 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.4 mg/mL (5.80 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.4 mg/mL (5.80 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	IDO/TDO-IN-1 (compound 25) is a highly potent and orally active dual indoleamine-2,3-dioxygenase (IDO) and tryptophan 2,3-dioxygenase (TDO) inhibitor with IC ₅₀ s of 9.7 and 47 nM, respectively [1].
IC₅₀ & Target	IC ₅₀ : 9.7 nM (Indoleamine-2,3-dioxygenase), 47 nM (Tryptophan 2,3-dioxygenase)[1]
In Vitro	IDO/TDO-IN-1 inhibits IDO in the Hela cell line with an IC ₅₀ of 76 nM[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Tu W, et al. Discovery of Imidazoisindole 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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