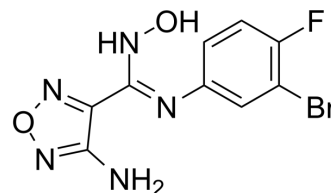


IDO-IN-1

Cat. No.:	HY-79531		
CAS No.:	914638-30-5		
Molecular Formula:	C ₉ H ₇ BrFN ₅ O ₂		
Molecular Weight:	316.09		
Target:	Indoleamine 2,3-Dioxygenase (IDO)		
Pathway:	Metabolic Enzyme/Protease		
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 : 120 mg/mL (379.64 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions	1 mM	3.1637 mL	15.8183 mL
		5 mM	0.6327 mL	3.1637 mL
		10 mM	0.3164 mL	1.5818 mL
			10 mg	31.6366 mL
				6.3273 mL
				3.1637 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: ≥ 3 mg/mL (9.49 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 3 mg/mL (9.49 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 3 mg/mL (9.49 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	IDO-IN-1 is a potent indoleamine 2,3-dioxygenase (IDO) inhibitor with an IC ₅₀ of 59 nM.	
IC₅₀ & Target	IDO 59 nM (IC ₅₀)	IDO 12 nM (IC ₅₀ , in HeLa cell)
In Vitro	IDO-IN-1 (Compound 5m) is a potent (HeLa IC ₅₀ =12 nM) inhibitor of IDO ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Yue EW, et al. Discovery of potent competitive inhibitors of indoleamine 2,3-dioxygenase with in vivo pharmacodynamic activity and efficacy in a mouse melanoma model. J Med Chem. 2009 Dec 10;52(23):7364-7.

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

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