IDO-IN-1

Cat. No.: HY-79531

CAS No.: 914638-30-5

Molecular Formula: $C_9H_7BrFN_5O_2$

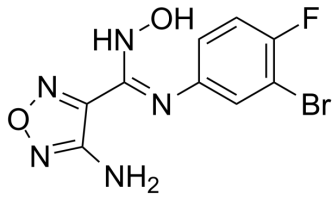
Molecular Weight: 316.09

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)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.1637 mL	15.8183 mL	31.6366 mL
	5 mM	0.6327 mL	3.1637 mL	6.3273 mL
	10 mM	0.3164 mL	1.5818 mL	3.1637 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: ≥ 3 mg/mL (9.49 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 3 mg/mL (9.49 mM); Clear solution
3. 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.

IC_{50} & Target

IDO	IDO
59 nM (IC_{50})	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.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA