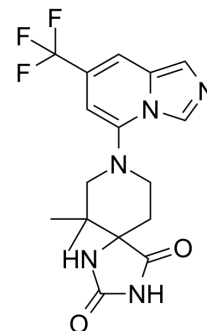


## IACS-8968

<b>Cat. No.:</b>	HY-112164		
<b>CAS No.:</b>	2144425-14-7		
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>18</sub> F <sub>3</sub> N <sub>5</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	381.35		
<b>Target:</b>	Indoleamine 2,3-Dioxygenase (IDO)		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 50 mg/mL (131.11 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM		2.6223 mL	13.1113 mL	26.2226 mL
		5 mM		0.5245 mL	2.6223 mL	5.2445 mL
10 mM			0.2622 mL	1.3111 mL	2.6223 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (6.56 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.56 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (6.56 mM); Clear solution</li> </ol>					

### BIOLOGICAL ACTIVITY

<b>Description</b>	IACS-8968 (IDO/TDO Inhibitor) is a dual IDO and TDO inhibitor, with pIC <sub>50</sub> s of 6.43 for IDO and <5 for TDO, respectively.
<b>IC<sub>50</sub> &amp; Target</b>	pIC <sub>50</sub> : 6.43 (IDO), <5 (TDO) <sup>[1]</sup> .

### REFERENCES

---

[1]. Hamilton MM, Mseeh F, McAfoos TJ, et al. Discovery of IACS-9779 and IACS-70465 as Potent Inhibitors Targeting Indoleamine 2,3-Dioxygenase 1 (IDO1) Apoenzyme. J Med Chem. 2021;64(15):11302-11329.

[2]. ARYL SULFONOHYDRAZIDES. WO 2017189386 A1

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

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