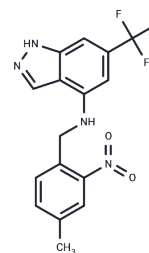


## TDO-IN-1

## Chemical Properties

CAS No. :	2490672-92-7
Formula:	C <sub>16</sub> H <sub>13</sub> F <sub>3</sub> N <sub>4</sub> O <sub>2</sub>
Molecular Weight:	350.3
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	TDO-IN-1 is an orally active, potent, and selective inhibitor of tryptophan 2,3-dioxygenase (TDO), inhibiting indoleamine-2,3-dioxygenase, with antitumor activity that reverses local immune tolerance in tumor tissues.
Targets(IC50)	Others,IDO,Indoleamine 2,3-Dioxygenase (IDO)
In vitro	TDO-IN-1 (HT-28) exhibits significant tumoricidal effects on various tumor lines at concentrations ranging from 0 to 100 μM over 24 hours, with IC50 values of 0.54 μM (HepG2), 5.08 μM (Hepa1-6), 1.34 μM (H22), 37.39 μM (B16), 3.43 μM (MOLM-13), and 7.25 μM (Jurkat)[1]. Additionally, TDO-IN-1 (0-100 μM; 24 h) shows minimal cytotoxicity against normal cells (HEK 293) at concentrations below 10 μM[1].
In vivo	Administered orally at a dose of 25 mg/kg once daily for 9 days, TDO-IN-1 (HT-28) enhances the efficacy of tumor immunotherapy in CT26 tumors expressing TDO. This treatment substantially inhibits the proliferation of CT26 tumors in mice[1].

## Solubility Information

Solubility	DMSO: 60 mg/mL (171.28 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

### Preparing Stock Solutions

---

	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.8547 mL	14.2735 mL	28.547 mL
5 mM	0.5709 mL	2.8547 mL	5.7094 mL
10 mM	0.2855 mL	1.4273 mL	2.8547 mL
50 mM	0.0571 mL	0.2855 mL	0.5709 mL

---

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Huo C, et al. 4,6-Disubstituted-1H-Indazole-4-Amine derivatives with immune-chemotherapy effect and in vivo antitumor activity. Eur J Med Chem. 2022 Nov 5;241:114625.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481