

IDO/Tubulin-IN-2

Chemical Properties

CAS No. :	2409479-24-7
Formula:	C ₄₈ H ₄₀ N ₆ O ₁₀
Molecular Weight:	860.87
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

Biological Description

Description	IDO/Tubulin-IN-2 (HT2) is a potent inhibitor of TDO and tubulin, showing significant efficacy against cancer cell lines U87, HepG2, A549, HCT-116, and LO2, with respective IC ₅₀ values of 0.43, 0.036, 0.041, 0.095, and 1.04 μM. Additionally, IDO/Tubulin-IN-2 markedly enhances antitumor activity [1].
Targets(IC ₅₀)	Apoptosis,Others,Microtubule Associated
In vitro	IDO/Tubulin-IN-2 (HT2) (0-50 μM, 4 h) exhibits potent cytotoxicity with IC ₅₀ values from 0.036 to 0.43 μM against various cancer cell lines [1]. At 0.1 μM over 24 h, it arrests HepG2 cells in G2 phase, induces apoptosis, promotes PARP proteolytic cleavage, and up-regulates caspase-3 expression [1]. At 0.05 μM, it reduces TDO mRNA expression in a time-dependent manner over 24, 48, and 72 h [1]. After 2 days, it enhances T-cell activation and proliferation, boosting the immune response [1].
In vivo	IDO/Tubulin-IN-2 (HT2), administered intravenously at a dosage of 30 mg/kg daily for 21 days, considerably suppresses tumor proliferation [1]. Additionally, when given for 29 days using the same dosage and route, it effectively enhances antitumor immunity, thereby augmenting the therapeutic effectiveness against tumors [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1616 mL	5.8081 mL	11.6162 mL
5 mM	0.2323 mL	1.1616 mL	2.3232 mL
10 mM	0.1162 mL	0.5808 mL	1.1616 mL
50 mM	0.0232 mL	0.1162 mL	0.2323 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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