

IDO1-IN-28

Chemical Properties

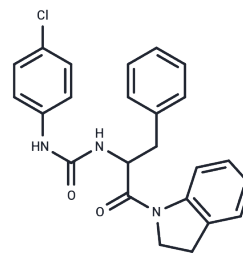
CAS No. : 1219296-74-8

Formula: C₂₄H₂₂ClN₃O₂

Molecular Weight: 419.9

Storage: Store at low temperature, Keep away from moisture
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	IDO1-IN-28 (Compound MQ-1) is a selective Apo-IDO1 inhibitor with an IC ₅₀ value of 1.29 μM that disrupts heme binding to the apo form of indoleamine 2,3-dioxygenase 1, IDO1-IN-28 is extensively applied in cancer research to investigate immune evasion mechanisms, tryptophan metabolism, and immuno-oncology therapeutic targeting.
Targets(IC ₅₀)	IDO
In vitro	IDO1-IN-28 functions as a novel inhibitor specifically targeting apo-IDO1 (the enzyme form lacking heme cofactor). In enzymatic assays, this compound demonstrated significant potency as a lead compound with an IC ₅₀ of 1.29 μM.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3815 mL	11.9076 mL	23.8152 mL
5 mM	0.4763 mL	2.3815 mL	4.763 mL
10 mM	0.2382 mL	1.1908 mL	2.3815 mL
50 mM	0.0476 mL	0.2382 mL	0.4763 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

Yin Y, et al. Identification of a Novel Core Structure of Apo-Ido1 Inhibitors Through Virtual Screening and Preliminary Hit Optimization. J Chem Inf Model. 2025 Sep 22;65(18):9723-9737.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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