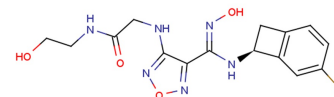


IDO1-IN-2

Chemical Properties

CAS No.:	2346614-58-0
Formula:	C ₁₅ H ₁₇ FN ₆ O ₄
Molecular Weight:	364.33
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	IDO1-IN-2 is a potent and selective IDO1 inhibitor with IC ₅₀ s of 81 nM, 59 nM (mouse), and 28 nM (rat), respectively. It has anti-cancer activity.
Targets(IC ₅₀)	IDO1: 81 nM
In vitro	IDO1-IN-2 has an IC ₅₀ of 249 nM for IDO1 whole blood. IDO1-IN-2 inhibits IDO1 (IC ₅₀ of 49 nM in Hela cell).
In vivo	IDO1-IN-2 has a t _{1/2} of 3.7 hours, a CL/CLu of 15/319 mL/min/kg, and an F of 63% for rats. IDO1-IN-2 has a t _{1/2} of 6 hours, a CL/CLu of 6/88 mL/min/kg, and an F of 67% for dogs. IDO1-IN-2 (100 mg/kg, twice daily) demonstrates good efficacy synergy when combined with anti-PD-1 mAb in a mouse EMT6 tumor syngeneic model.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.745 mL	13.724 mL	27.448 mL
5 mM	0.549 mL	2.745 mL	5.49 mL
10 mM	0.274 mL	1.372 mL	2.745 mL
50 mM	0.055 mL	0.274 mL	0.549 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Zhang H, et al. Discovery of Amino-cyclobutarene-derived Indoleamine-2,3-dioxygenase 1 (IDO1) Inhibitors for Cancer Immunotherapy. ACS Med Chem Lett. 2019 Sep 18;10(11):1530-1536.

Inhibitors · Natural Compounds · Compound Libraries

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