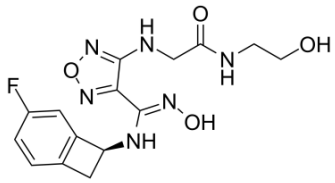
IDO1-IN-2

Cat. No.:	HY-130607
CAS No.:	2346614-58-0
Molecular Formula:	$C_{15}H_{17}FN_6O_4$
Molecular Weight:	364.33
Target:	Indoleamine 2,3-Dioxygenase (IDO)
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	IDO1-IN-2 (compound 16) is a potent and selective IDO1 inhibitor with IC_{50}s of 81 nM, 59 nM (mouse) and 28 nM (rat), respectively. IDO1-IN-2 has anti-cancer activity[1].
IC_{50} & Target	IDO1 81 nM (IC_{50})
In Vitro	IDO1-IN-2 inhibits amino-cyclobutarene-derived indoleamine-2,3-dioxygenase 1 (IDO1) Hela cellular with an IC_{50} of 49 nM. IDO1-IN-2 has an IC_{50} of 249 nM for IDO1 wholr blood[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	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[1]. IDO1-IN-2 has a $t_{1/2}$ of 3.7 hours, a CL/CLu of 15/319 mL/min/kg, and a 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 a F of 67% for dogs[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[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.

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