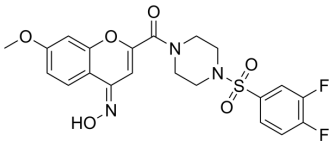
IDO1-IN-21

Cat. No.:	HY-149227
CAS No.:	2892432-98-1
Molecular Formula:	$C_{21}H_{19}F_2N_3O_6S$
Molecular Weight:	479.45
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-21 (compound 10m) is an IDO1 inhibitor (IC_{50} = 0.64 μM). IDO1-IN-21 effectively inhibits tumor growth in mice[1].
IC_{50} & Target	IDO1 0.64 μM (IC_{50})
In Vitro	IDO1-IN-21 (0-50 μM; 48 h) inhibits the viability of SW480 cells with an IC_{50} value of 28.64 μM[1]. IDO1-IN-21 (0-10 μM; 48 h) inhibits the IDO1 of HeLa cells with an IC_{50} value of 1.04 μM[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay[1]

Cell Line:	SW480 cells
Concentration:	0-50 μM
Incubation Time:	48 h
Result:	Surpressed viability of SW480 cells (IC_{50} = 28.64 μM).

In Vivo

IDO1-IN-21 (50, 100 mg/kg; i.p.; every three day for 21 consecutive days) inhibits growth of tumor in CT26 tumor-bearing mice[1].

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Animal Model:	CT26 tumor-bearing mice[1].
Dosage:	50, 100 mg/kg
Administration:	Intraperitoneal administration; every three day for 21 consecutive days.
Result:	Led to significant suppression of tumor growth.

REFERENCES

[1]. Wang K, et al. Discovery of novel sulfonamide chromone-oxime derivatives as potent indoleamine 2,3-dioxygenase 1 inhibitors. Eur J Med Chem. 2023 Jun 5;254:115349.

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