Proteins

NNMT-IN-4

Cat. No.: HY-151813 CAS No.: 2947393-64-6 Molecular Formula: C₉H₁₁N₃O

Molecular Weight: 177.2 Others Target: Pathway: Others

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

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Product Data Sheet

BIOLOGICAL ACTIVITY

Description NNMT-IN-4 (compound 38) is a selective, uncompetitive and membrane permeability nicotinamide N-methyltransferase (NNMT) inhibitor with IC50 values of 42 and 38 nM in vitro biochemical and cell-based assays, respectively. NNMT-IN-4 shows favorable PK/PD and safety profiles as well as excellent oral bioavailability and pharmaceutical properties. NNMT-IN-4 can

be used as a vivo chemical probe of NNMT^[1].

IC₅₀ & Target IC50: 38 nM (NNMT, in K562 cells), 42 nM (promega MTase-Glo methyltransferase assay)^[1]

In Vitro NNMT-IN-4 (5 nM-0.5 mM; 24 h) shows inhibitory effect to NNMT with an IC $_{50}$ value of 38 nM in K562 cells^[1].

NNMT-IN-4 (5 nM-0.5 mM; 24 h) shows inhibitory effect to NNMT with an IC $_{50}$ value of 42 nM in promega MTase-Glo

methyltransferase assay^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Pharmacokinetic Properties of NNMT-IN-4 in $Mice^{[1]}$. In Vivo

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	Mice PO 50 mg/kg
T _{1/2} (h)	2.89
T _{max} (h)	0.250
C _{max} (ng/mL)	22500
AUC _{last} (ng*h/mL)	51115
CI (1 mg/kg IV) (mL/min/kg)	36.1
F (%)	220
MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

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REFERENCES
[1]. Barrows RD, et al. Potent Uncompetitive Inhibitors of Nicotinamide N-Methyltransferase (NNMT) as In Vivo Chemical Probes. J Med Chem. 2022 Nov 10;65(21):14642-14654.
Caution: Product has not been fully validated for medical applications. For research use only.
cutton. I route has not been ranky valuated for interieur applications, i or research use only.
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