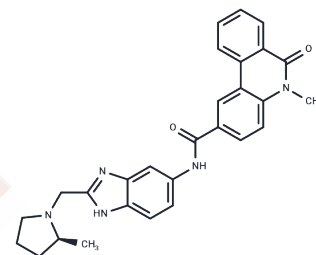


Eleven-Nineteen-Leukemia Protein IN-3

Chemical Properties

CAS No. : 2894121-83-4
 Formula: C₂₈H₂₇N₅O₂
 Molecular Weight: 465.55
 Storage: 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	Eleven-Nineteen-Leukemia Protein IN-3, an orally active ENL YEATS domain inhibitor, exhibits potent activity with an IC ₅₀ of 15.4 nM. It downregulates MYC expression via ENL in cells and enhances ENL protein's thermal stability in vitro [1].
Targets(IC ₅₀)	Epigenetic Reader Domain
In vitro	Eleven-Nineteen-Leukemia Protein IN-3 (Compound 28) exhibits significant inhibitory effects on MV4-11 and MOLM-13 cell lines with IC ₅₀ values of 4.8 μM and 8.3 μM, respectively [1]. At 5 μM for 6 hours, it increases the thermal stability of the endogenous ENL protein without impacting GAS41 protein stability. Additionally, it inhibits MOLM-13 cell growth [1], suppressing MYC oncogene expression by approximately 50% at 5 μM over 72 hours. When combined with JQ-1, it further downregulates MYC expression in ENL target genes [1].
In vivo	Eleven-Nineteen-Leukemia Protein IN-3 (Compound 28) demonstrated oral bioavailability at a dose of 30 mg/kg when administered orally as a single dose [1]. When given intravenously at 5 mg/kg as a single injection, the compound showed higher systemic exposure [1]. Pharmacokinetic (PK) studies in male BALB/c mice revealed that for oral administration, the half-life (t _{1/2}) was 5.2 hours, with a time to peak concentration (T _{max}) of 0.5 hours, a maximum concentration (C _{max}) of 71.8 ng/mL, an area under the curve to the last measurable concentration (AUC _{0-t}) of 257 h•ng/mL, an extrapolated AUC (AUC _{0-∞}) of 272 h•ng/mL, and a mean residence time (MRT _{0-∞}) of 5.5 hours. For intravenous administration, the t _{1/2} was 4.0 hours, AUC _{0-t} was 8290 h•ng/mL, AUC _{0-∞} was 8690 h•ng/mL, volume of distribution at steady state (V _{ss}) was 0.8 L/kg, clearance (CL) was 9.6 mL/min/kg, MRT _{0-∞} was 1.3 hours, and bioavailability (F %) was 0.5%.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.148 mL	10.740 mL	21.480 mL
5 mM	0.4296 mL	2.148 mL	4.296 mL
10 mM	0.2148 mL	1.074 mL	2.148 mL
50 mM	0.043 mL	0.2148 mL	0.4296 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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