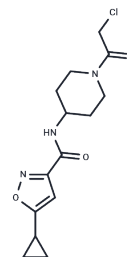


EM127

Chemical Properties

CAS No. : 1886879-71-5
 Formula: C₁₄H₁₈ClN₃O₃
 Molecular Weight: 311.76
 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	EM127 is a highly selective and potent covalent inhibitor of SMYD3 with a KD value of 13 μ M. EM127 inhibits ERK1/2 phosphorylation and inhibits transcriptional regulation of SMYD3 target genes. EM127 slowly reduces methyltransferase activity over a long period of time. EM127 has potential anticancer activity and can be used to study SMYD3 positive tumors. EM127 has potential anticancer activity and can be used to study SMYD3 positive tumors.
Targets(IC50)	ERK, Histone Methyltransferase
In vitro	In MDA-MB-231 and HCT116 cells, EM127 exhibits good anti-proliferative activity when treated with 5 μ M for 24, 48, and 72 hours[1]. Additionally, at the same concentration and time points, EM127 diminishes the expression of SMYD3 target genes. However, this effect is not observed when SMYD3 is knocked out or expressed at low levels in MDA-MB-231 cells[1]. Furthermore, in both HCT116 and MDA-MB-231 cells, EM127, at concentrations of 1, 3.5, and 5 μ M for 48 and 72 hours, decreases ERK1/2 phosphorylation in a dose- and time-dependent manner[1].

Solubility Information

Solubility	DMSO: 20 mg/mL (64.15 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2076 mL	16.038 mL	32.076 mL
5 mM	0.6415 mL	3.2076 mL	6.4152 mL
10 mM	0.3208 mL	1.6038 mL	3.2076 mL
50 mM	0.0642 mL	0.3208 mL	0.6415 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.

Reference

Parenti M D, et al. Discovery of the 4-aminopiperidine-based compound EM127 for the site-specific covalent inhibition of SMYD3. *European Journal of Medicinal Chemistry*, 2022: 114683.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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