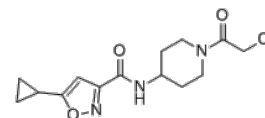


Product Name : EM127
Cat. No. : PC-49813
CAS No. : 1886879-71-5
Molecular Formula : C₁₄H₁₈ClN₃O₃
Molecular Weight : 311.77
Target : Histone Methyltransferase (HMTase)
Solubility : 10 mM in DMSO



Biological Activity

EM127 is a potent, site-specific covalent, second-generation inhibitor of **SMYD3** methyltransferase.

EM127 shows a striking selectivity towards the target Cys186 residue.

EM127 is more potent than the reference inhibitor EPZ031686.

EM127 attenuated the proliferation of MDA-MB-231 breast cancer cell line at the same low micromolar range of concentrations that reduced SMYD3 mediated ERK signaling in HCT116 colorectal cancer and MDA-MB-231 breast cancer cells.

EM127 (5 μM) strongly decreased the steady-state mRNA levels of genes important for tumor biology such as cyclin dependent kinase 2, c-MET, N-cadherin and fibronectin 1, all known to be regulated, at least in part, by SMYD3.

References

Marco Daniele Parenti, et al. *Eur J Med Chem.* 2022 Dec 5;243:114683.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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