

Catalog Number: CM08942

产品信息

Catalog Number:
CM08942

CAS号:
2499663-01-1

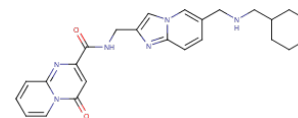
分子式:
 $C_{25}H_{28}N_6O_2$

主要靶点:
Apoptosis|Others

主要通路:
凋亡|其他

分子量:
444.53

溶解度:
DMSO:100 mM, Sonification is recommended.



体外活性

STM2457 (Compound 72) inhibits MOLM13 cells proliferation with an IC_{50} of 8.699 μ M [1]. STM2457, a highly potent and selective first-in-class catalytic inhibitor of METTL3, and a crystal structure of STM2457 in complex with METTL3-METTL14. Treatment of tumours with STM2457 leads to reduced AML growth and an increase in differentiation and apoptosis. These cellular effects are accompanied by selective reduction of m6A levels on known leukaemogenic mRNAs and a decrease in their expression consistent with a translational defect. We demonstrate that pharmacological inhibition of METTL3 in vivo leads to impaired engraftment and prolonged survival in various mouse models of AML, specifically targeting key stem cell subpopulations of AML [2].

描述

STM2457 is a first-in-class, highly potent, selective and orally active inhibitor of METTL3. It can be used for the research of acute myeloid leukaemia (AML).

储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years