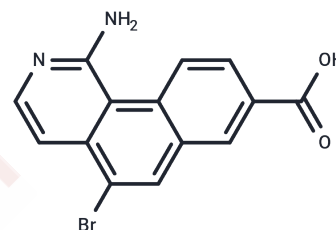


MK256

Chemical Properties

CAS No. : 2271348-04-8
 Formula: C₁₄H₉BrN₂O₂
 Molecular Weight: 317.14
 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	MK256 is a novel CDK8 inhibitor that demonstrates potent antitumor activity against AML by inhibiting the STAT pathway. It induces differentiation and maturation while inhibiting proliferation in AML cell lines. MK256 decreases the phosphorylation of STAT1 (S727) and STAT5(S726) and reduces mRNA expression of MCL-1 and CCL2 in these cells. Its efficacy is validated in the MOLM-14 xenograft model, showing phosphorylation inhibition of STAT1(S727) and STAT5(S726) post-treatment. Pharmacokinetic studies in the MOLM-14 model reveal a dose-dependent inhibition of the STAT pathway. Both in vitro and in vivo studies confirm that MK256 effectively downregulates the STAT pathway.
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1532 mL	15.7659 mL	31.5318 mL
5 mM	0.6306 mL	3.1532 mL	6.3064 mL
10 mM	0.3153 mL	1.5766 mL	3.1532 mL
50 mM	0.0631 mL	0.3153 mL	0.6306 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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