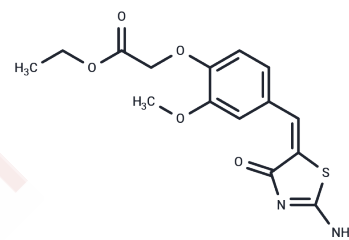


CCI-007

Chemical Properties

CAS No. : 939228-52-1
 Formula: C₁₅H₁₆N₂O₅
 Molecular Weight: 336.36
 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	CCI 007 is a selective inhibitor of MLL-r, CALM-AF10 and SET-NUP214 leukemia with IC50 of 3.5 uM against MLL-r leukemia cell line PER-485
Targets(IC50)	Apoptosis,Histone Methyltransferase
In vitro	small molecule CCI-007 was identified as a compound that selectively and significantly decreased the viability of a subset of MLL-r and related leukemia cell lines with CALM-AF10 and SET-NUP214 translocation.?CCI-007 induced a rapid caspase-dependent apoptosis with mitochondrial depolarization within twenty-four hours of treatment.?CCI-007 altered the characteristic MLL-r gene expression signature in sensitive cells with downregulation of the expression of HOXA9, MEIS1, CMYC and BCL2, important drivers in MLL-r leukemia, within a few hours of treatment.?MLL-r leukemia cells that were resistant to the compound were characterised by significantly higher baseline gene expression levels of MEIS1 and BCL2 in comparison to CCI-007 sensitive MLL-r leukemia cells.

Solubility Information

Solubility	DMSO: 25 mg/mL (74.33 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 2 mg/mL (5.95 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.973 mL	14.865 mL	29.7301 mL
5 mM	0.5946 mL	2.973 mL	5.946 mL
10 mM	0.2973 mL	1.4865 mL	2.973 mL
50 mM	0.0595 mL	0.2973 mL	0.5946 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

Somers K , Chudakova D A , Middlemiss S , et al. CCI-007, a novel small molecule with cytotoxic activity against infant leukemia with MLL rearrangements[J]. Oncotarget, 2016, 7(29):46067-46087.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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