

YH239-EE

Chemical Properties

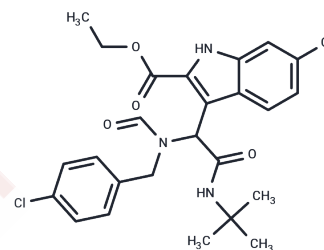
CAS No. : 1364488-67-4

Formula: C₂₅H₂₇Cl₂N₃O₄

Molecular Weight: 504.41

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	YH239-EE, the ethyl ester of YH239, is a potent p53-MDM2 antagonist and an apoptosis inducer.
Targets(IC50)	Apoptosis,E1/E2/E3 Enzyme,MDM-2/p53
In vitro	YH239-EE inhibits the growth of OCI-AML-3 cells with wild type p53 by inhibiting the p53-MDM2 interaction. YH239-EE induces cell cycle arrest and causes potent cell apoptosis via activation of p53 and downstream targets in four AML cells (OCI-AML-3 and MOLM-13 with wt p53, NB4 with p53 mutation, and HL60 with p53 deletion). [1]
Cell Research	Cell lines are harvested in log-phase growth and seeded following exposure to p53-MDM2 antagonists. Cell number and viability are determined by staining cells with Trypan blue 0.4% and counted with Countess slides.(Only for Reference)

Solubility Information

Solubility	Ethanol: 15 mg/mL (29.74 mM),Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 93 mg/mL (184.37 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	1.9825 mL	9.9126 mL	19.8251 mL
5 mM	0.3965 mL	1.9825 mL	3.965 mL
10 mM	0.1983 mL	0.9913 mL	1.9825 mL
50 mM	0.0397 mL	0.1983 mL	0.3965 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

Huang Y, et al. ACS Chem Biol. 2014, 9(3), 802-811.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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