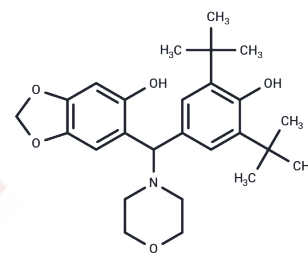


UC-514321

## Chemical Properties

CAS No. : 299420-83-0  
 Formula: C<sub>26</sub>H<sub>35</sub>N<sub>5</sub>O<sub>5</sub>  
 Molecular Weight: 441.56  
 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	UC-514321 directly targets STAT3/5 and represses TET1 expression. UC-514321 has the potential to treat acute myeloid leukemia (AML) both in vitro and in vivo, with low toxicity.
Targets(IC50)	Apoptosis,STAT,DNA Methyltransferase
In vitro	UC-514321 (0-500 nM, 48 h) inhibits AML cells viability TET1-signaling dependently.UC-514321 increases apoptosis in AML cells not in normal HSPCs.
In vivo	In AML mice models, UC-514321 (2.5 mg/kg, i.p., once per day, for 10 days) exhibits more potent anti-tumor activity than NSC370284.

## Solubility Information

Solubility	DMSO: 25 mg/mL (56.62 mM),Sonication is recommended. H <sub>2</sub> O: 50 mg/mL (113.23 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	2.2647 mL	11.3235 mL	22.647 mL
5 mM	0.4529 mL	2.2647 mL	4.5294 mL
10 mM	0.2265 mL	1.1323 mL	2.2647 mL
50 mM	0.0453 mL	0.2265 mL	0.4529 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

Jiang X, et al. Targeted inhibition of STAT/TET1 axis as a therapeutic strategy for acute myeloid leukemia. Nat Commun. 2017 Dec 13;8(1):2099.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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