

UC-514321

Chemical Properties

CAS No.:	299420-83-0
Formula:	C ₂₆ H ₃₅ NO ₅
Molecular Weight:	441.56
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	UC-514321 is a structural analog of NSC370284 and has the potential to treat acute myeloid leukemia (AML) both in vitro and in vivo, with low toxicity.
Targets(IC ₅₀)	STAT3: None
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	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.265 mL	11.323 mL	22.647 mL
5 mM	0.453 mL	2.265 mL	4.529 mL
10 mM	0.226 mL	1.132 mL	2.265 mL
50 mM	0.045 mL	0.226 mL	0.453 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

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