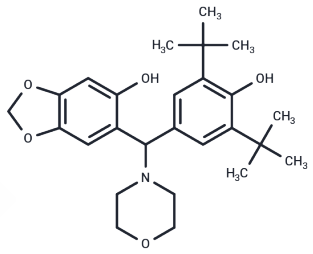
# Data Sheet (Cat.No.T13950)

TargetMol

## UC-514321

### Chemical Properties



CAS No. : 299420-83-0

Formula: C26H35NO5

Molecular Weight: 441.56

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

### 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 |
| 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 (55.62 mM),Sonication is recommended.<br>H2O: 50 mg/mL (113.23 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

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.

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.

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