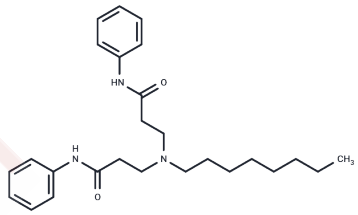
# Data Sheet (Cat.No.T9935)

TargetMol

## UCM-1336

### Chemical Properties



CAS No. : 1621535-90-7

Formula: C26H37N3O2

Molecular Weight: 423.59

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 | UCM-1336 (3,3′-(Octylimino)bis[N-phenylpropanamide]) is a potent ICMT inhibitor with an IC50 of 2 μM which is selective against the other enzymes involved in the post-translational modifications of Ras. |
| Targets(IC50) | Apoptosis,Others,Autophagy |
| In vitro | UCM-1336 significantly impairs the membrane association of the four Ras isoforms, leading to a decrease of Ras activity and to inhibition of Ras downstream signaling pathways. UCM-1336 induces cell death in a variety of Ras-mutated tumor cell lines and increases survival in an in vivo model of acute myeloid leukemia. Because ICMT inhibition impairs the activity of the four Ras isoforms regardless of its activating mutation, UCM-1336 surmounts many of the common limitations of available Ras inhibitors described so far[2]. |
| In vivo | UCM-1336 significantly inhibits glioblastoma growth without causing toxicity in mice[1]. |

### Solubility Information

| | |
|---|---|
| Solubility | DMSO: 11 mg/mL (25.97 mM),Sonication is recommended<br>H2O: < 1 mg/mL (insoluble)<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.3608 mL | 11.8039 mL | 23.6077 mL |
| 5 mM | 0.4722 mL | 2.3608 mL | 4.7215 mL |
| 10 mM | 0.2361 mL | 1.1804 mL | 2.3608 mL |
| 50 mM | 0.0472 mL | 0.2361 mL | 0.4722 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

Wan W, et al. Isoprenylcysteine carboxyl methyltransferase is critical for glioblastoma growth and survival by activating Ras/Raf/Mek/Erk. Cancer Chemother Pharmacol. 2022 Mar;89(3):401-411.
Marín-Ramos NI, et al. A Potent Isoprenylcysteine Carboxylmethyltransferase (ICMT) Inhibitor Improves Survival in Ras-Driven Acute Myeloid Leukemia. J Med Chem. 2019 Jul 11;62(13):6035-6046.