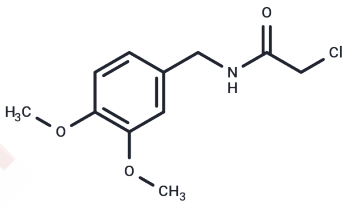
# Data Sheet (Cat.No.T7415)

TargetMol

DKM 2-93

## Chemical Properties



CAS No. : 65836-72-8

Formula: C11H14ClNO3

Molecular Weight: 243.69

Storage: Store at low temperature
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 | DKM 2-93 is a relatively selective inhibitor of UBA5 (IC50: 430 μM). |
| Targets(IC50) | E1/E2/E3 Enzyme |
| In vitro | Covalent ligand DKM 2-93 that impairs pancreatic cancer cell survival and in vivo tumor growth through covalently modifying the catalytic cysteine of the ubiquitin-like modifier activating enzyme 5 (UBA5), thereby inhibiting its activity as a protein that activates the ubiquitin-like protein UFM1 to UFMylate proteins. |

## Solubility Information

| | |
|---|---|
| Solubility | DMSO: 150 mg/mL (615.54 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (16.41 mM),Sonication is recommended.<br>*Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.* |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 4.1036 mL | 20.5179 mL | 41.0357 mL |
| 5 mM | 0.8207 mL | 4.1036 mL | 8.2071 mL |
| 10 mM | 0.4104 mL | 2.0518 mL | 4.1036 mL |
| 50 mM | 0.0821 mL | 0.4104 mL | 0.8207 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

Roberts A M , Miyamoto D K , Huffman T R , et al. Chemoproteomic Screening of Covalent Ligands Reveals UBA5 As a Novel Pancreatic Cancer Target[J]. ACS Chemical Biology, 2017, 12(4):899-904.