

DC432 TFA

Chemical Properties

CAS No. :

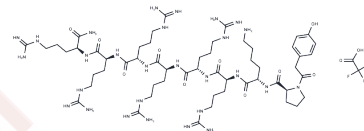
Formula: C55H100N28O10.XCF3COOH

Molecular Weight: 1313.60

Keep away from moisture

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

DC432 is a cell-permeable peptide that serves as an inhibitor of N-terminal Xaa-Pro-Lys N-methyltransferase 1 (NTMT1; IC₅₀ = 0.054 μM), capable of binding to both NTMT1 and NTMT2 with dissociation constants (K_ds) of 0.3 and 1 μM, respectively. It effectively inhibits the N-terminal dimethylation of regulator of chromosome condensation 1 (RCC1) by NTMT1 at concentrations of 10 and 50 μM in cell-free assays. Furthermore, at a concentration of 100 μM, DC432 diminishes the trimethylation of the RCC1 SPKRIA motif in HCT116 cells.

Solubility Information

Solubility

DMF: 10 mg/mL (7.61 mM), Sonication is recommended.
 Ethanol: 2 mg/mL (1.52 mM), Sonication is recommended.
 DMSO: 10 mg/mL (7.61 mM), Sonication is recommended.
 PBS pH 7.2: 2 mg/mL (1.52 mM), Sonication is recommended.
 (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7613 mL	3.8063 mL	7.6127 mL
5 mM	0.1523 mL	0.7613 mL	1.5225 mL
10 mM	0.0761 mL	0.3806 mL	0.7613 mL
50 mM	0.0152 mL	0.0761 mL	0.1523 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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