

## Malantide TFA

## Chemical Properties

CAS No. :

Formula: C74H125F3N22O23

Molecular Weight: 1747.91

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   | Malantide TFA, a synthetic dodecapeptide, originates from the phosphorylation site targeted by cAMP-dependent protein kinase (PKA) on the $\beta$ -subunit of phosphorylase kinase. Exhibiting a high specificity for PKA with a Michaelis constant ( $K_m$ ) of 15 $\mu$ M, this compound demonstrates more than 90% inhibition of substrate phosphorylation in the presence of protein inhibitor (PKI) across various rat tissue extracts [1]. Moreover, Malantide TFA acts as an effective substrate for Protein Kinase C (PKC) with a $K_m$ of 16 $\mu$ M [2]. |
| Targets(IC50) | PKA,PKC  |

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg      |
|-------|-----------|-----------|-----------|
| 1 mM  | 0.5721 mL | 2.8606 mL | 5.7211 mL |
| 5 mM  | 0.1144 mL | 0.5721 mL | 1.1442 mL |
| 10 mM | 0.0572 mL | 0.2861 mL | 0.5721 mL |
| 50 mM | 0.0114 mL | 0.0572 mL | 0.1144 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.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481