

TM-1

Chemical Properties

CAS No. : 921099-13-0

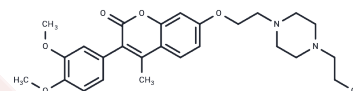
Formula: C₂₆H₃₂N₂O₆

Molecular Weight: 468.54

Store at low temperature

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	TM-1 is an effective 26S proteasome inhibitor and autophagy inducer. It increases LC3-II levels to suppress tumor growth via dual degradation pathway modulation in cancer research.
Targets(IC50)	Proteasome,Autophagy
In vitro	TM-1 inhibits PDK1 (IC ₅₀ = 2.97 μM), decreases PDHC phosphorylation and inhibits MG-63 cell proliferation (EC ₅₀ = 14.5 μM) [1].

Solubility Information

Solubility	DMSO: 40 mg/mL (85.37 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1343 mL	10.6714 mL	21.3429 mL
5 mM	0.4269 mL	2.1343 mL	4.2686 mL
10 mM	0.2134 mL	1.0671 mL	2.1343 mL
50 mM	0.0427 mL	0.2134 mL	0.4269 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

De Vita E, Schüler P, Lovell S, et al. Depsipeptides featuring a neutral P1 are potent inhibitors of kallikrein-related peptidase 6 with on-target cellular activity[J]. Journal of medicinal chemistry, 2018, 61(19): 8859-8874.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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