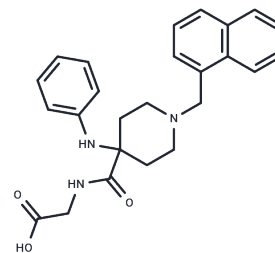


VBIT-12

## Chemical Properties

CAS No. : 2089227-65-4  
 Formula: C<sub>25</sub>H<sub>27</sub>N<sub>3</sub>O<sub>3</sub>  
 Molecular Weight: 417.5  
 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	VBIT-12 is a potent inhibitor of VDAC1.
Targets(IC50)	VDAC

## Solubility Information

Solubility	DMSO: 250 mg/mL (598.8 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.4 mM), Sonication is recommended. <i>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.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3952 mL	11.976 mL	23.9521 mL
5 mM	0.479 mL	2.3952 mL	4.7904 mL
10 mM	0.2395 mL	1.1976 mL	2.3952 mL
50 mM	0.0479 mL	0.2395 mL	0.479 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

Shoshan-Barmatz V, et al. VDAC1, mitochondrial dysfunction, and Alzheimer's disease. Pharmacol Res. 2018 May; 131:87-101.

Zhang Z, Zhou H, Gu W, et al. CGI1746 targets  $\sigma$ 1R to modulate ferroptosis through mitochondria-associated membranes. Nature Chemical Biology. 2024: 1-11.

**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