Data Sheet (Cat.No.T13286)

TargetMol
YOUR TARGET MOLECULES

VBIT-3

Chemical Properties

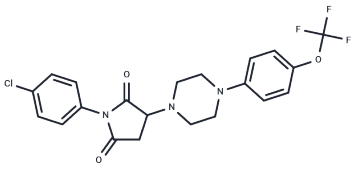
CAS No. : 2088463-66-3

Formula: C21H19ClF3N3O3

Molecular Weight: 453.84

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	VBIT-3 is a voltage-dependent anion channel 1 (VDAC1) oligomerization inhibitor (Kd: 31.3 μM). VBIT-3 also is an apoptosis inhibitor, can be used for therapeutic purposes in apoptosis-associated disorders (such as neurodegenerative and cardiovascular diseases).
Targets(IC50)	Others
In vitro	VBIT-3 targets the mitochondrial protein VDAC1 and inhibits apoptosis and protect against mitochondria dysfunction. VBIT-3 (0.1-10 μM) inhibits VDAC1 oligomerization, Cyto c release from mitochondria and apoptosis (in HEK-293 cells, IC50s of 8.8±0.56 μM, 6.6±1.03 μM, and 7.5±0.27 μM, respectively).

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2034 mL	11.0171 mL	22.0342 mL
5 mM	0.4407 mL	2.2034 mL	4.4068 mL
10 mM	0.2203 mL	1.1017 mL	2.2034 mL
50 mM	0.0441 mL	0.2203 mL	0.4407 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.

Reference

Ben-Hail D, et al. Novel Compounds Targeting the Mitochondrial Protein VDAC1 Inhibit Apoptosis and Protect against Mitochondrial Dysfunction. J Biol Chem. 2016 Nov 25;291(48):24986-25003.

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