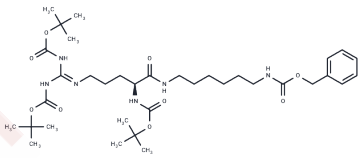
Data Sheet (Cat.No.T14886)

TargetMol

Cbz-B3A

Chemical Properties



CAS No. : 1884710-81-9

Formula: C35H58N6O9

Molecular Weight: 706.87

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	Cbz-B3A is a potent inhibitor of mTORC1 signalling, inhibits phosphorylation of eIF4E-binding protein 1 (4EBP1) and blocks translation by 68%.
Targets(IC50)	mTOR
In vitro	Cbz-B3A (10 μM) inhibits the phosphorylation of 4EBP1 and p70S6k Thr-389 [1].

Solubility Information

Solubility	DMSO: 10 mg/mL (14.15 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4147 mL	7.0734 mL	14.1469 mL
5 mM	0.2829 mL	1.4147 mL	2.8294 mL
10 mM	0.1415 mL	0.7073 mL	1.4147 mL
50 mM	0.0283 mL	0.1415 mL	0.2829 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

Coffey RT, et al. Ubiquilin-mediated Small Molecule Inhibition of Mammalian Target of Rapamycin Complex 1 (mTORC1) Signaling. J Biol Chem. 2016 Mar 4;291(10):5221-33.

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