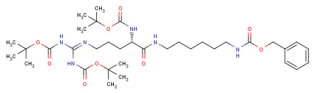
Data Sheet (Cat.No.T14886)

TargetMol
A DRUG SCREENING EXPERT

Cbz-B3A

Chemical Properties



CAS No.:	1884710-81-9
Formula:	C35H58N6O9
Molecular Weight:	706.87
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Cbz-B3A is a potent and selective inhibitor of mTORC1 signaling that appears to bind to ubiquitin 1, 2, and 4. It inhibits the phosphorylation of eIF4E-binding protein 1 (4EBP1).
Targets(IC_{50})	mTORC1 signaling: None
In vitro	Cbz-B3A has a larger effect on the phosphorylation of 4EBP1 than p70S6k compared to rapamycin. Cbz-B3A inhibits mTOR through Ubiquilins. Cbz-B3A slows cellular growth of some human leukemia cell lines but is not cytotoxic. Cbz-B3A decreases the incorporation of [35S]methionine/cysteine into protein in a dose-dependent manner, with maximal inhibition of 68% observed at 10 μM (EC50: ~3 μM).

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.415 mL	7.073 mL	14.147 mL
5 mM	0.283 mL	1.415 mL	2.829 mL
10 mM	0.141 mL	0.707 mL	1.415 mL
50 mM	0.028 mL	0.141 mL	0.283 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. 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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