



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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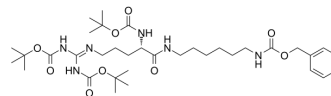
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Cbz-B3A

Cat. No.:	HY-114267		
CAS No.:	1884710-81-9		
Molecular Formula:	C ₃₅ H ₅₈ N ₆ O ₉		
Molecular Weight:	706.87		
Target:	mTOR		
Pathway:	PI3K/Akt/mTOR		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 20 mg/mL (28.29 mM; Need ultrasonic and warming)

Concentration	Mass		
	1 mg	5 mg	10 mg
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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Cbz-B3A is a potent and selective inhibitor of mTORC1 signaling that appear to bind to ubiquilins 1, 2, and 4, and Cbz-B3A inhibits the phosphorylation of eIF4E-binding protein 1 (4EBP1).

IC₅₀ & Target

mTORC1 signaling^[1].

In Vitro

Cbz-B3A slows cellular growth of some human leukemia cell lines, but is not cytotoxic. Cbz-B3A has a larger effect on the phosphorylation of 4EBP1 than p70^{S6k} compared to rapamycin. Cbz-B3A inhibits mTOR through Ubiquilins. 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, and an EC₅₀ of ~3 μM. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[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.

Caution: Product has not been fully validated for medical applications. For research use only.

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