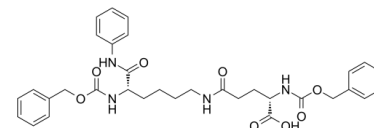


Data Sheet

Product Name:	MC3482
Cat. No.:	CS-0047672
Molecular Formula:	C33H38N4O8
Molecular Weight:	618.68
Target:	Sirtuin
Pathway:	Cell Cycle/DNA Damage; Epigenetics
Solubility:	DMSO : ≥ 130 mg/mL (210.12 mM); H ₂ O : < 0.1 mg/mL (insoluble)



BIOLOGICAL ACTIVITY:

MC3482 is a specific sirtuin5 (**SIRT5**) inhibitor. IC₅₀ & Target: SIRT5^[1] **In Vitro:** MC3482 inhibits sirtuin5. 50 μ M MC3482 inhibits SIRT5 desuccinylating activity without affecting SIRT5 intracellular expression levels. Autophagy and mitophagy increase in SIRT5-silenced cells and in WT cells treated with MC3482 and decrease in SIRT5-overexpressing cells^[1].

PROTOCOL (Extracted from published papers and Only for reference)

Cell Assay: ^[1]MDA-MB-231 and C2C12 cells are treated with 50 μ M of SIRT5 inhibitor MC3482 for 24 h. Ammonia levels are measured in the culture medium every other day^[1].

References:

[1]. Polletta L, et al. SIRT5 regulation of ammonia-induced autophagy and mitophagy. *Autophagy*. 2015;11(2):253-70.

CAIndexNames:

N2-((Benzyloxy)carbonyl)-N5-((S)-5-(((benzyloxy)carbonyl)amino)-6-oxo-6-(phenylamino)hexyl)-L-glutamine

SMILES:

O=C(N[C@H](C(NC1=CC=CC=C1)=O)CCCCNC(CC[C@@H](C(O)=O)NC(OCC2=CC=CC=C2)=O)=O)OCC3=CC=CC=C3

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

Tel: 732-484-9848 Fax: 888-484-5008 E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA