

Q14

Chemical Properties

CAS No. :

Formula: C101H168N32O23

Molecular Weight:

Keep away from moisture

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

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| Description | Q14 is a polypeptide derived from the transmembrane (TM) domain of USP30 (ubiquitin specific peptidase30) and is capable of inhibiting the deubiquitination activity of USP30 (IC50=57.2 nM). By hindering the interaction between USP30's transmembrane and catalytic domains, it lowers USP30 activity. The Q14 polypeptide contains an LC3 interaction region (LIR) motif, enabling it to bind with LC3, thereby accelerating autophagosome formation and promoting mitophagy. Q14 is applicable in the study of neurodegenerative diseases, mitochondrial quality control, and cellular metabolism. |
| Targets(IC50) | Mitophagy,DUB |

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Tel:781-999-4286

E_mail:info@targetmol.com

Address:34 Washington Street,Wellesley Hills,MA 02481