

Product Name: Q14

Cat. No.: MRP-2505-CXX-32

Package: 50 mg/100 mg/250 mg

Description

Q14, a polypeptide derived from the transmembrane domain, inhibits USP30 deubiquitination activity (IC₅₀=57.2 nM). It reduces USP30 activity by blocking the interaction between its transmembrane and catalytic domains. Containing an LC3 interaction region (LIR) motif, Q14 binds to LC3 and accelerates autophagosome formation, promoting mitophagy. It's useful for studying neurodegenerative diseases, mitochondrial quality control, and cell metabolism.

Product Details

Synonyms: Q14 peptide

Formula: C₁₀₁H₁₆₈N₃₂O₂₃

Molecular Weight: 2198.62

Biological Target: Deubiquitinase; Mitophagy

Research Areas: Neurological Disease, Others

Sequence: Ac-Gly-Ile-Tyr-Val-Ile-Trp-Gly-Pro-Ile-Thr-Glu-Arg-Lys-Lys-Arg-Arg-Lys-Gly-NH₂

Sequence Shortening: Ac-GIYVIWGPITERKKRRKG-NH₂

Shipping Conditions: Room Temperature

Storage Information: Powder: -80°C (2 years), -20°C (1 year); In solvent: -80°C (6 months), -20°C (1 month)

 For preclinical research and development use only; not intended for therapeutic or other applications.