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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Q14

Cat. No.:	HY-P10416
Molecular Formula:	C ₉₉ H ₁₆₆ N ₃₂ O ₂₂
Molecular Weight:	2156.58
Sequence:	Gly-Ile-Tyr-Val-Ile-Trp-Gly-Pro-Ile-Thr-Glu-Arg-Lys-Lys-Arg-Arg-Lys-Gly-NH ₂
Sequence Shortening:	GIYVIWGPITERKKRRKG-NH ₂
Target:	Deubiquitinase; Mitophagy
Pathway:	Cell Cycle/DNA Damage; Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Q14 is a polypeptide derived from the USP30 (ubiquitin specific peptidase 30) transmembrane (TM) domain with the ability to inhibit the deubiquitination activity of USP30 (IC ₅₀ =57.2 nM). Q14 reduces USP30 activity by inhibiting the interaction between the USP30 transmembrane domain and its catalytic domain. Q14 peptide contains the LC3 interaction region (LIR) motif, which enables it to bind to the LC3 and accelerate the formation of autophagosomes, thereby promoting mitophagy. Q14 can be used in the study of neurodegenerative diseases as well as mitochondrial quality control and cell metabolism ^[1] .
IC ₅₀ & Target	USP30 57.2 nM (IC ₅₀)

REFERENCES

[1]. Qin X, et al. Identification of an autoinhibitory, mitophagy-inducing peptide derived from the transmembrane domain of USP30[J]. Autophagy, 2022, 18(9): 2178-2197.

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

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