

retro-inverso TAT-Beclin 1 (D-amino acid)

Cat. No.:	HY-P10110
Molecular Formula:	C ₁₆₄ H ₂₅₁ N ₅₇ O ₄₅
Molecular Weight:	3741.1
Sequence:	d-(Arg-Arg-Arg-Gln-Arg-Arg-Lys-Lys-Arg-Gly-Tyr-Gly-Gly-Thr-Gly-Phe-Glu-Gly-Asp-His-Trp-Ile-Glu-Phe-Thr-Ala-Asn-Phe-Val-Asn-Thr)
Sequence Shortening:	d-(RRRQRRKRGYGGTGFEGDHWIEFTANFVNT)
Target:	Autophagy
Pathway:	Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

retro-inverso TAT-Beclin 1 D-amino acid is has higher activity and resistance to proteolytic degradation in vivo compared to L-amino acids peptide. TAT-Beclin 1 can induce autophagy in peripheral tissues in adult mice as well as in the central nervous system of neonatal mice^{[1][2]}.

REFERENCES

[1]. Yanfei He, et al. Development of an autophagy activator from Class III PI3K complexes, Tat-BECN1 peptide: Mechanisms and applications. *Front Cell Dev Biol.* 2022 Sep 12;10:851166.

[2]. Sanae Shoji-Kawata, et al. Identification of a candidate therapeutic autophagy-inducing peptide. *Nature.* 2013 Feb 14;494(7436):201-6.

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

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