

Antennapedia Peptide

Cat. No.:	HY-P0307
CAS No.:	188842-14-0
Molecular Formula:	C ₁₀₄ H ₁₆₈ N ₃₄ O ₂₀ S
Molecular Weight:	2246.73
Sequence:	Arg-Gln-Ile-Lys-Ile-Trp-Phe-Gln-Asn-Arg-Arg-Met-Lys-Trp-Lys-Lys
Sequence Shortening:	RQIKIWFQNRMRMKWKK
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Antennapedia Peptide (Penetratin peptide) is a 16 amino acid peptide, originally derived from the 60 amino acid long homeodomain of the Drosophila transcription factor Antennapedia and is a member of the family of cell-penetrating peptides.
In Vitro	Antennapedia (Antp)-SMCC-cytochrome c conjugate (5 µg/mL) activates caspase-dependent apoptosis of HeLa cells. The Antp-SMCC-cytochrome c conjugate reduces the clonogenic survival of HeLa cells, and inhibits clonogenic survival ^[1] . ANTP-SmacN7 fusion protein can transduce and accumulate in cells, while SmacN7 alone cannot. ANTP-SmacN7 fusion proteins have a radiation-sensitising effect on EC109 cells. ANTP-SmacN7 combined with radiation does not promote further increases in caspase-3 protein expression, it increases the levels of cleaved caspase-3 ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Imesch P, et al. Conjugates of cytochrome c and antennapedia peptide activate apoptosis and inhibit proliferation of HeLa cancer cells. *Exp Ther Med*. 2013 Sep;6(3):786-790. Epub 2013 Jul 4.

[2]. Du LQ, et al. Radiation-sensitising effects of antennapedia proteins (ANTP)-SmacN7 on tumour cells. *Int J Mol Sci*. 2013 Dec 11;14(12):24087-96.

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

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