Product Data Sheet

Product Name: Antennapedia Peptide
Cat. No.: GC33336

Chemical Properties

Cas. No.	188842-14-0		
SMILES	Arg-Gln-Ile-Lys-Ile-Trp-Phe-Gln-Asn-Arg-Arg-Met-Lys-Trp-Lys-Lys		
Formula	$C_{104}H_{168}N_{34}O_{20}S$	M.Wt	2246.8
Solubility	Soluble in Water	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Antennapedia Peptide		

Background

Antennapedia 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.

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].

[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.

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