

Antennapedia Peptide TFA

Cat. No.:	HY-P0307A		
Molecular Formula:	C ₁₀₄ H ₁₆₈ N ₃₄ O ₂₀ S.C ₂ HF ₃ O ₂		
Molecular Weight:	2360.82		
Sequence:	Arg-Gln-Ile-Lys-Ile-Trp-Phe-Gln-Asn-Arg-Arg-Met-Lys-Trp-Lys-Lys	RQIKIWFQNRRMKWKK (TFA salt)	
Sequence Shortening:	RQIKIWFQNRRMKWKK		
Target:	Others		
Pathway:	Others		
Storage:	Sealed storage, away from moisture and light, under nitrogen		
	Powder	-80°C	2 years
		-20°C	1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)		

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 100 mg/mL (42.36 mM); Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		0.4236 mL	2.1179 mL	4.2358 mL
		5 mM		0.0847 mL	0.4236 mL	0.8472 mL
	10 mM		0.0424 mL	0.2118 mL	0.4236 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 50 mg/mL (21.18 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	Antennapedia Peptide (Penetratin peptide) TFA 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 Peptide TFA is a 16 amino acid peptide (RQIKIWFQNRRMKWKK). The DNA binding domain of the Drosophila transcription factor (Antennapedia), a 60 amino acid protein, is rapidly taken up by cells and has been fused to selected antigens to enhance their immunogenicity. A 16 amino acid peptide Antennapedia Peptide TFA from Antennapedia can facilitate the cytoplasmic uptake of cytotoxic T lymphocyte epitope 9-mer peptides ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Pietersz GA, et al. A 16-mer peptide (RQIKIWFQNRRMKWKK) from antennapedia preferentially targets the Class I pathway. *Vaccine*. 2001 Jan 8;19(11-12):1397-405.

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

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