

TAT-HA2 Fusion Peptide

Cat. No.:	HY-P4108
CAS No.:	923954-79-4
Molecular Formula:	C ₁₄₉ H ₂₄₃ N ₅₃ O ₃₉ S
Molecular Weight:	3432.92
Sequence:	RRRQRRKKRGGDIMGEWGNEIFGAIAGFLG Arg-Arg-Arg-Gln-Arg-Arg-Lys-Lys-Arg-Gly-Gly-Asp-Ile-Met-Gly-Glu-Trp-Gly-Asn-Glu-Ile-Phe-Gly-Ala-Ile-Ala-Gly-Phe-Leu-Gly
Sequence Shortening:	RRRQRRKKRGGDIMGEWGNEIFGAIAGFLG
Target:	Influenza Virus
Pathway:	Anti-infection
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

H₂O : 100 mg/mL (29.13 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	0.2913 mL	1.4565 mL	2.9130 mL
	5 mM	0.0583 mL	0.2913 mL	0.5826 mL
	10 mM	0.0291 mL	0.1456 mL	0.2913 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

TAT-HA2 Fusion Peptide is a peptide-based delivery agent that combines the pH-sensitive HA2 fusion peptide from Influenza and the cell-penetrating peptide TAT from HIV. TAT-HA2 Fusion Peptide induces the cellular uptake of macromolecules into endosomes via the TAT moiety and to respond to the acidifying lumen of endosomes to cause membrane leakage and release of macromolecules into cells via the HA2 moiety^[1].

REFERENCES

[1]. Ya-Jung Lee, et al. Modeling of the endosomolytic activity of HA2-TAT peptides with red blood cells and ghosts. *Biochemistry*. 2010 Sep 14;49(36):7854-66.

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

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