

TAT-NEP1-40 acetate

Cat. No.:	HY-P5754B
Molecular Formula:	$C_{268}H_{438}N_{88}O_{77} \cdot xC_2H_4O_2$
Sequence:	Tyr-Gly-Arg-Lys-Lys-Arg-Arg-Gln-Arg-Arg-Arg-Arg-Ile-Tyr-Lys-Gly-Val-Ile-Gln-Ala-Ile-Gln-Lys-Ser-Asp-Glu-Gly-His-Pro-Phe-Arg-Ala-Tyr-Leu-Glu-Ser-Glu-Val-Ala-Ile-Ser-Glu-Glu-Leu-Val-Gln-Lys-Tyr-Ser-Asn-Ser-NH ₂ <small>YGRKKRRQRRRIYKGVIAIQKSDGHPFRAYLESEVAISEELVQKYSNS-NH₂ (acetate salt)</small>
Sequence Shortening:	YGRKKRRQRRRIYKGVIAIQKSDGHPFRAYLESEVAISEELVQKYSNS-NH ₂
Target:	Apoptosis
Pathway:	Apoptosis
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)

BIOLOGICAL ACTIVITY

Description

TAT-NEP1-40 acetate is a therapeutic candidate for axonal regeneration and functional recovery after stroke. TAT-NEP1-40 acetate can protect PC12 cells against oxygen and glucose deprivation (OGD) and promote neurite outgrowth. TAT-NEP1-40 acetate protects the brain against ischemia/reperfusion injury through inhibition of neuronal apoptosis. TAT-NEP1-40 acetate can be efficiently delivered into the rat brains^{[1][2]}.

REFERENCES

- [1]. Gou X, et al. TAT-NEP1-40 as a novel therapeutic candidate for axonal regeneration and functional recovery after stroke. *J Drug Target*. 2011 Feb;19(2):86-95.
- [2]. Wang Q, et al. Trans-activator of transcription-mediated delivery of NEP1-40 protein into brain has a neuroprotective effect against focal cerebral ischemic injury via inhibition of neuronal apoptosis. *Anesthesiology*. 2008 Jun;108(6):1071-80.

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

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