TAT-amide

Cat. No.:	HY-P2193
CAS No.:	697226-52-1
Molecular Formula:	$C_{64}H_{119}N_{33}O_{13}$
Molecular Weight:	1558.84
Sequence:	Tyr-Gly-Arg-Lys-Lys-Arg-Arg-Gln-Arg-Arg-Arg-NH2
Sequence Shortening:	YGRKKRRQRRR-NH2
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)

BIOLOGICAL ACTIVITY

Description	TAT-amide is a cell penetrating peptide. Cell-penetrating peptides (CPPs) are short amino acid sequences able to enter different cells[1][2].
In Vitro	Cell-penetrating peptides (CPPs) have been employed in cellular delivery of cargoes such as DNA, siRNA, organic halide, ruthenium complex, Zr-labeled antibody for PET imaging, low-molecular-weight chitosan, and fluorescent dyes[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Okuda-Shinagawa NM, et al. Fluorescent and Photosensitizing Conjugates of Cell-Penetrating Peptide TAT(47-57): Design, Microwave-Assisted Synthesis at 60 °C, and Properties. ACS Omega. 2017 Nov 30;2(11):8156-8166.

[2]. Xu P, et al. Precise control of apoptosis via gold nanostars for dose dependent photothermal therapy of melanoma. J Mater Chem B. 2019 Nov 28;7(44):6934-6944.

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