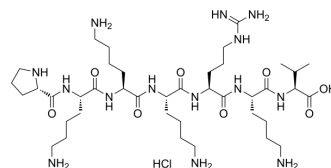


NLS (PKKKRKV) (hydrochloride)

Cat. No.:	HY-P1876B
Molecular Formula:	C ₄₀ H ₇₉ ClN ₁₄ O ₈
Molecular Weight:	919.6
Sequence:	Pro-Lys-Lys-Lys-Arg-Lys-Val
Sequence Shortening:	PKKKRKV
Target:	Others
Pathway:	Others
Storage:	Sealed storage, away from moisture and light
	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)

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 500 mg/mL (543.71 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	1.0874 mL	5.4371 mL	10.8743 mL
			5 mM	0.2175 mL	1.0874 mL	2.1749 mL
			10 mM	0.1087 mL	0.5437 mL	1.0874 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (108.74 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	NLS (PKKKRKV) hydrochloride is a nuclear localization signal (NLS) derived from the simian virus 40 large tumor antigen (SV40 large T antigen). NLS (PKKKRKV) can function as a method to enhance nuclear entry in the field of gene transfer research ^{[1][2]} .
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REFERENCES

[1]. Zanta MA, et al. Gene delivery: A single nuclear localization signal peptide is sufficient to carry DNA to the cell nucleus. Proc Natl Acad Sci U S A. 1999 Jan 5;96(1):91-6.

[2]. Cao S, et al. Enhanced effect of nuclear localization signal peptide during ultrasound-targeted microbubble destruction-mediated gene transfection. Mol Med Rep. 2017 Jul;16(1):565-572.

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

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