

## SV40 large T antigen NLS

Cat. No.:	HY-P0310
CAS No.:	163815-24-5
Molecular Formula:	C <sub>58</sub> H <sub>104</sub> N <sub>20</sub> O <sub>18</sub> S
Molecular Weight:	1401.63
Sequence:	Cys-Gly-Gly-Gly-Pro-Lys-Lys-Lys-Arg-Lys-Val-Glu-Asp
Sequence Shortening:	CGGGPKKKRKVED
Target:	Others
Pathway:	Others
Storage:	Sealed storage, away from moisture
	Powder    -80°C    2 years
	-20°C    1 year

\* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

### BIOLOGICAL ACTIVITY

Description	SV40 large T antigen NLS is from Large T antigen residue 47 to 55, enables protein import into cell nucleus.
In Vitro	SV40 large tumor-antigen (T-ag) nuclear import is enhanced by the protein kinase CK2 (CK2) site (Ser111Ser112) flanking the nuclear localization sequence (NLS) <sup>[1]</sup> . T-ag NLS can enhance nuclear import, despite the fact that PK-C has been shown to inhibit nuclear import of proteins such as lamin B2 <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Xiao CY, et al. Negative charge at the protein kinase CK2 site enhances recognition of the SV40 large T-antigen NLS by importin: effect of conformation. FEBS Lett. 1998 Dec 4;440(3):297-301.

[2]. Xiao CY, et al. An engineered site for protein kinase C flanking the SV40 large T-antigen NLS confers phorbol ester-inducible nuclear import. FEBS Lett. 1998 Oct 9;436(3):313-7.

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

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