

KALA

Cat. No.:	HY-P2530
CAS No.:	187987-64-0
Molecular Formula:	C ₁₄₄ H ₂₄₈ N ₄₀ O ₃₅ S
Molecular Weight:	3131.82
Sequence:	Trp-Glu-Ala-Lys-Leu-Ala-Lys-Ala-Leu-Ala-Lys-Ala-Leu-Ala-Lys-His-Leu-Ala-Lys-Ala-Leu-Ala-Lys-Ala-Leu-Lys-Ala-Cys-Glu-Ala
Sequence Shortening:	WEAKLAKALAKALAKHLAKALAKALAKACEA
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	KALA is an amphiphilic peptide that forms an α -helical structure at physiological pH. KALA modifies a plasmid DNA-encapsulating liposomal membrane and is used as a fusogenic peptide in order to achieve effective liver targeting and transfection of DNA via galactose receptors ^[1] .
In Vitro	When a plasmid DNA-encapsulating liposomal membrane is modified with the KALA peptide, transgene expression and immune activation are facilitated in bone marrow-derived dendritic cells (BMDCs) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Naoya Miura, et al. Identification and Evaluation of the Minimum Unit of a KALA Peptide Required for Gene Delivery and Immune Activation. J Pharm Sci. 2017 Oct;106(10):3113-3119.

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

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