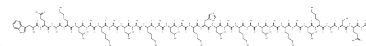


KALA

Chemical Properties

CAS No. :	187987-64-0
Formula:	C144H248N40O35S
Molecular Weight:	3131.87
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	KALA, an amphiphilic peptide, adopts an α -helical conformation under physiological pH conditions. It functions as a fusogenic peptide, modifying the liposomal membrane that encapsulates plasmid DNA, thereby facilitating liver targeting and DNA transfection through galactose receptors.
In vitro	Modifying a plasmid DNA-encapsulated liposomal membrane with KALA peptide enhances transgene expression and immune activation in bone marrow-derived dendritic cells (BMDCs)[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3193 mL	1.5965 mL	3.193 mL
5 mM	0.0639 mL	0.3193 mL	0.6386 mL
10 mM	0.0319 mL	0.1596 mL	0.3193 mL
50 mM	0.0064 mL	0.0319 mL	0.0639 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

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