

LAH4 acetate

Chemical Properties

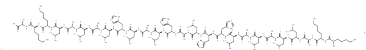
CAS No. :

Formula: C134H232N38O29

Molecular Weight: 2839.51

Storage: Store at low temperature, Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	LAH4 acetate is the α -helical structure of the designed amphoteric peptide antibiotic, which is capable of complexing DNA, associating with the cell surface membrane and wrapped in the endosome, which is destroyed with the decrease of pH value. It has strong antibacterial, nucleic acid transfection and cell penetration activities. LAH4 acetate has high plasmid DNA transmission capacity. LAH4 acetate has a strong affinity for anions in bacterial membranes.
Targets(IC50)	Antibacterial
In vitro	LAH4 acetate mediates the transport of functional β -galactosidase, a large tetrameric protein of about 0.5 MDa, into the cell interior[1]. At acidic pH, LAH4 has exhibited a high tendency to interact strongly with and be adsorbed on anionic membrane [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3522 mL	1.7609 mL	3.5217 mL
5 mM	0.0704 mL	0.3522 mL	0.7043 mL
10 mM	0.0352 mL	0.1761 mL	0.3522 mL
50 mM	0.007 mL	0.0352 mL	0.0704 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

Moulay G, et al. Histidine-rich designer peptides of the LAH4 family promote cell delivery of a multitude of cargo. J Pept Sci. 2017 Apr;23(4):320-328.

Islami M, et al. Study of orientation and penetration of LAH4 into lipid bilayer membranes: pH and composition dependence. Chem Biol Drug Des. 2014 Aug;84(2):242-52.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481