
Product Data Sheet

Product Name: LAH4
Cat. No.: GC34256

Chemical Properties

Cas. No. 184776-51-0

SMILES Lys-Lys-Ala-Leu-Leu-Ala-Leu-Ala-Leu-His-His-Leu-Ala-His-Leu-Ala-Leu-His-Leu-Ala-Leu-Ala-Leu-Lys-Lys-Ala

Formula C₁₃₂H₂₂₈N₃₈O₂₇ M.Wt 2779.53

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

LAH4 is an antimicrobial peptide that strongly interacts with phospholipid membranes, exhibiting in vitro transfection efficiency.

LAH4 exhibits potent antimicrobial, nucleic acid transfection and cell penetration activities[1]. LAH4 mediates the transport of functional β -galactosidase, a large tetrameric protein of about 0.5 MDa, into the cell interior[2]. At acidic pH, LAH4 has exhibited a high tendency to interact strongly with and be adsorbed on anionic membrane[3].

[1]. Perrone B, et al. Lipid interactions of LAH4, a peptide with antimicrobial and nucleic acid transfection activities. Eur Biophys J. 2014 Nov;43(10-11):499-507. [2]. 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. [3]. 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.

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

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