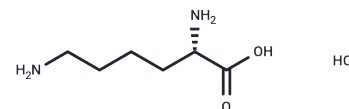


Poly-L-lysine hydrochloride

Chemical Properties

CAS No. :	26124-78-7
Formula:	(C ₆ H ₁₄ N ₂ O ₂ .ClH) _x
Molecular Weight:	
Appearance:	no data available
Storage:	store at low temperature, keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Poly-L-lysine hydrochloride plays a key role in promoting cell attachment to solid substrates by enhancing the electrostatic interaction between the negatively charged ions present on the cell membrane and the surface of the culture substrate as a non-specific attachment factor. Poly-L-lysine hydrochloride is a peptide that at low concentrations Due to its cationic peptide nature, Poly-L-lysine hydrochloride is antimicrobially active. These properties make it an important component for enhancing cell adhesion, regulating phase separation kinetics and demonstrating antimicrobial activity.
Targets(IC50)	Antibacterial
In vitro	Poly-L-lysine, a food-grade antimicrobial peptide, interacts with proteins to form complexes, serving as potential carriers for the targeted delivery of agents. The interaction affinity was analyzed using electrostatic potential modeling of Poly-L-lysine, resulting in a three-dimensional phase boundary curve that delineates the complexation process into nano-scale formations and phase separation.

Solubility Information

Solubility	H2O: 45.0 mg/mL, Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Reference

Archishman Ghosh, et al. Three archetypical classes of macromolecular regulators of protein liquid-liquid phase separation. Proc Natl Acad Sci U S A. 2019;116(39):19474-19483.

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