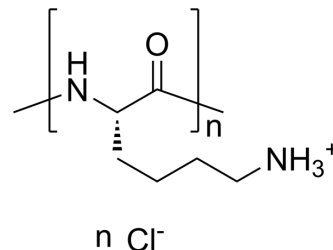


Poly-L-lysine hydrochloride

Cat. No.:	HY-126437A
CAS No.:	26124-78-7
Molecular Formula:	C ₈ H ₁₉ ClN ₂ O
Target:	Bacterial
Pathway:	Anti-infection
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 50 mg/mL (Need ultrasonic and warming)
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BIOLOGICAL ACTIVITY

Description Poly-L-lysine hydrochloride is a nonspecific attachment factor for cells useful in promoting cell adhesion to solid substrates by enhancing electrostatic interaction between negatively charged ions of the cell membrane and the culture surface. Poly-L-lysine hydrochloride is a strong-attraction regulator that promotes liquid-liquid phase separation (LLPS) at low concentrations but suppresses LLPS at high concentrations. Antibacterial cationic peptide.^[1]

In Vitro Poly-L-lysine is a food-grade antimicrobial peptide that forms complexes with proteins. Such complexes are potential carriers for targeted delivery of agents. Electrostatic potential modelling of EPL was employed to describe the interaction affinity. A three-dimensional phase boundary curve was established which divided the complexation into a nano-scale and phase separation^[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Archishman Ghosh, et al. Three archetypical classes of macromolecular regulators of protein liquid-liquid phase separation. Proc Natl Acad Sci U S A. 2019 Sep 24;116(39):19474-19483.

[2]. Liang Guo, et al. pH-induced structural transition during complexation and precipitation of sodium caseinate and ε-Poly-L-lysine. Int J Biol Macromol. 2020 Jul 1;154:644-653.

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

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