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Produktinformation



Forschungsprodukte & Biochemikalien



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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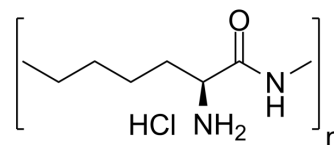
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ϵ -Poly-L-lysine hydrochloride (MV 2000-5000)

Cat. No.:	HY-W250308A
Molecular Formula:	(C ₆ H ₁₂ N ₂ O.CH) _n
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

ϵ -Poly-L-lysine hydrochloride (MV 2000-5000) is an antimicrobial peptide that can be produced by bacteria such as *Streptomyces*. Epsilon-polylysine hydrochloride inhibits the growth of microorganisms such as bacteria, yeasts and molds and is therefore often used as a green food additive and preservative in various food and beverage products. Epsilon-polylysine hydrochloride has a variety of properties, including thermal stability, resistance to acidic conditions, and broad-spectrum antimicrobial activity. Epsilon-polylysine hydrochloride can be loaded on other materials to form nanoparticles or form nanofiber membranes for targeted delivery to exert sustained antibacterial efficacy. Epsilon-polylysine hydrochloride is also used as a liposome stabilizer^{[1][2][3][4]}.

REFERENCES

- [1]. Wang Z, et al. Metabolomic Analysis of Biosynthesis Mechanism of ϵ -Polylysine Produced by *Streptomyces diastatochromogenes*. *Front Bioeng Biotechnol*. 2021 Jul 30;9:698022.
- [2]. Alemán A, et al. A novel functional wrapping design by complexation of ϵ -polylysine with liposomes entrapping bioactive peptides[J]. *Food and Bioprocess Technology*, 2016, 9: 1113-1124.
- [3]. Yingying M, et al. pH-Sensitive ϵ -polylysine/polyaspartic acid/zein nanofiber membranes for the targeted release of polyphenols. *Food Funct*. 2022 Jun 20;13(12):6792-6801.
- [4]. Zhou X, et al. Elaboration and characterization of ϵ -polylysine-sodium alginate nanoparticles for sustained antimicrobial activity. *Int J Biol Macromol*. 2023 Aug 16;251:126329.

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

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