

Poly-L-lysine hydrobromide - M.W:70000-150000, Enzyme Activity

Catalog	Unit
TBP0101-100MG	100 mg
TBP0101-500MG	500 mg
TBP0101-1G	1 g

Product Details

Purity: min. 95 %

Synonyms: L-Lys-(L-Lys)_n-L-Lys.xHBr

Chemical Formula: (C₆H₁₂N₂O₂)_n•(HBr)_x

Storage: store at <-15°C, close container well

CAS No.: 25988-63-0

Description

Poly-L-lysine hydrobromide is a synthetic polymer that is used as a coating material for medical devices and implants. Poly-L-lysine hydrobromide has been shown to have antimicrobial activity against leukemic mice, carcinoma cell lines, and other microorganisms. It also has been shown to inhibit the growth of bacteria in vitro by binding to their cell membranes and interfering with their metabolism. This polymer has been shown to be effective in treating bacterial infections on the skin, urinary tract, and respiratory system. Poly-L-lysine hydrobromide has also been used as a coating material for catheters to prevent biofilm formation, which can lead to urinary tract infections. The carboxy terminal end of the polymer chain renders it hydrophobic and prevents it from precipitating out of solution. The thermal expansion coefficient of poly-L-lysine hydrobromide is very close to that of water, so it will not cause any kind.

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