

Poly-L-lysine (hydrobromide) (MW 150000-300000)

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Poly-L-lysine hydrobromide (MW 150000-300000) is a lysine polymer that acts as a nonspecific cell attachment factor. It facilitates cell adhesion to solid substrates and can serve as a coating matrix for culture dishes and slides. Additionally, it exhibits anticancer activity against melanoma and lymphoma. Poly-L-lysine hydrobromide (MW 150000-300000) is also applicable in combination with hyperthermia, magnetic resonance imaging, and cancer cell detection.
Targets(IC50)	Others
In vitro	Poly-L-lysine hydrobromide (MW 150000-300000) exhibits cytotoxic effects in B16F10 and L1210 cells at concentrations ranging from 0-500 µg/mL over 67 hours, with IC50 values of 25 and 275 µg/mL, respectively. Additionally, this compound is used to design magnetic nanoparticles for combined hyperthermia, magnetic resonance imaging, and cancer cell detection. It also inhibits MHCK A phosphorylation of synthetic peptide MH-3, with an IC50 around 0.5 µg/mL.
In vivo	Poly-L-lysine hydrobromide (MW 150000-300000) is used for synthesizing nanoclusters (i.v.) to enable negative contrast imaging of endometriotic lesions in mice via positron emission tomography.

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