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P7405  **Sigma-Aldrich.**

Poly-D-lysine hydrobromide

★★★★★ (0)

mol wt >300,000, lyophilized powder, γ-irradiated, BioReagent, suitable for cell culture

Synonyme(s):

PDL

Formule linéaire:

D-Lys-(D-Lys)_n-D-Lys · xHBr

Numéro CAS: **27964-99-4**

Numéro MDL: **MFCD00131934**

ID de substance PubChem: **24898848**

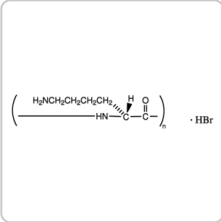
NACRES: NA.75

Référence	Conditionnement	Disponibilité	Prix	Quantité
P7405-5MG	5 MG	 Disponible pour expédition le 07 octobre 2022 Détails...	109,00 €	  

[Demander une commande en gros](#)

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PRODUITS RECOMMANDÉS



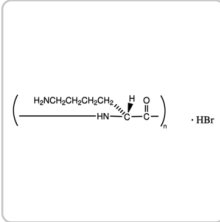
Sigma-Aldrich

P6407

Poly-D-lysine hydrobromide

mol wt 70,000-150,000, lyophilized powder, γ-irradiated, BioReagent, suitable for cell culture

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

P7280

Poly-D-lysine hydrobromide

average mol wt 30,000-70,000, lyophilized powder, γ-irradiated, BioReagent, suitable for cell culture

[Consulter le prix et la disponibilité](#)



PROPRIÉTÉS

Niveau de qualité	200
Stérilité	γ-irradiated
Gamme de produits	BioReagent BioXtra
Forme	lyophilized powder
Poids mol.	>300,000
Conditionnement	pkg of 5 mg
technique(s)	cell culture mammalian: suitable
Solubilité	H ₂ O: soluble 50 mg/mL, clear, colorless
Expédié(e)s dans	ambient

Temp. de stockage	-20°C
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SMILES string	<chem>O=C(C)[C@@](NC)([H])CCCCN.[Br]</chem>
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InChI	1S/C6H14N2O2.BrH/c7-4-2-1-3-5(8)6(9)10;/h5H,1-4,7-8H2,(H,9,10);1H
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InChI key	MEXAGTSTSPYCEP-UHFFFAOYSA-N
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Vous recherchez des produits similaires ? Visitez [Guide de comparaison des produits](#)

Catégories apparentées

[Attachment Factors](#)

DESCRIPTION

Application

Poly-D-lysine polymers can be used in preparing surfaces for cell attachment. The D-lysine polymers can also be used with cells that digest poly-L-lysine polymers and cause an excessive uptake of L-lysine.

This product is recommended as a cell culture substratum when using 0.5 - 1.0 mL of a 0.1 mg/mL solution to coat 25 cm². Lower molecular weight versions of the product are less viscous, but high more molecular weight versions provide more attachment sites per molecule.

Actions biochimiques/physiologiques

This product 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. After absorption to the

culture surface, poly-D-lysine increases the number of positively charged cell binding sites.

Composants

Poly-D-lysine is a positively charged amino acid polymer with approximately one HBr per lysine residue. The hydrobromide allows the poly-D-lysine to be in a crystalline form soluble in water. A small amount of product may be found in the β structure because the HBr interferes with hydrogen bonding between amino and either the carboxyl groups or N or O containing moieties.

Attention

Sterile solutions are stable for up to 2 years when stored at 2-8°C. It should be stored desiccated at -20°C.

Remarque sur l'analyse

This product has a molecular weight >300,000 and is cell culture tested and gamma-irradiated. To remove the HBr, dissolve this product in a neutral buffer and dialyze to remove the salts. In general, to use this product as an attachment factor, add 50 mL of sterile tissue culture grade water to 5 mg of poly-lysine, and aseptically coat the surface with 1 mL per 25 cm² of solution. After 5 minutes, remove the solution through aspiration and thoroughly rinse the surface. Let dry for two hours before introducing cells and medium.

INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de stockage

11 - Combustible Solids

WGK

WGK 3

Flash Point(F)

Not applicable

Point d'éclair C

Not applicable

Équipement de protection individuelle

Eyeshields, Gloves, type N95 (US)

DOCUMENTATION

Certificat d'analyse

Saisir un numéro de lot pour rechercher un certificat d'analyse (COA).

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COA)

Rechercher

Certificat d'origine

Saisir un numéro de lot pour rechercher un certificat d'origine (COO).

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COO)

Rechercher

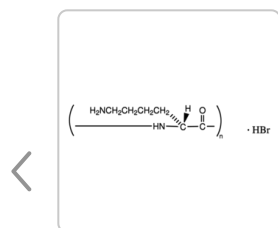
Fiche D'informations Produit

Product Information Sheet - P7405

Plus De Documents

[Spectra for FT-IR Raman](#)[Structure Search](#)[FDS](#)

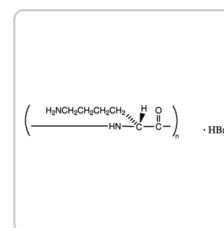
LES CLIENTS ONT ÉGALEMENT CONSULTÉ



Sigma-Aldrich

P0899**Poly-D-lysine hydrobromide**

mol wt 70,000-150,000

[Consulter le prix et la disponibilité](#)

Sigma-Aldrich

P7886**Poly-D-lysine hydrobromide**

mol wt 30,000-70,000

[Consulter le prix et la disponibilité](#)

ARTICLES REVUS PAR DES PAIRS

[Real-time subpixel-accuracy tracking of single mitochondria in neurons reveals heterogeneous mitochondrial motion.](#)

Adolfo Alsina et al.*Biochemical and biophysical research communications*, 493(1), 776-782 (2017-09-09)

Mitochondria are essential for cellular survival and function. In neurons, mitochondria are transported to various subcellular regions as needed. Thus, defects in the axonal transport of mitochondria are related to the pathogenesis of neurodegenerative diseases, and the movement of mitochondria

[B cells from patients with multiple sclerosis induce cell death via apoptosis in neurons in vitro.](#)

Robert P Lisak et al.*Journal of neuroimmunology*, 309, 88-99 (2017-06-12)

B cells mediate multiple sclerosis (MS) pathogenesis by mechanisms unrelated to immunoglobulin (Ig). We reported that supernatants (Sup) from cultured B cells from blood of relapsing remitting MS (RRMS) patients, but not normal controls (NC), were cytotoxic to rat oligodendrocytes

Inflammatory Activation of Astrocytes Facilitates Melanoma Brain Tropism via the CXCL10-CXCR3 Signaling Axis.

Hila Doron et al.

Cell reports, 28(7), 1785-1798 (2019-08-15)

Melanoma is the deadliest skin cancer due to its high rate of metastasis, frequently to the brain. Brain metastases are incurable; therefore, understanding melanoma brain metastasis is of great clinical importance. We used a mouse model of spontaneous melanoma brain

Prophage exotoxins enhance colonization fitness in epidemic scarlet fever-causing *Streptococcus pyogenes*.

Stephan Brouwer et al.

Nature communications, 11(1), 5018-5018 (2020-10-08)

The re-emergence of scarlet fever poses a new global public health threat. The capacity of North-East Asian serotype M12 (emm12) *Streptococcus pyogenes* (group A *Streptococcus*, GAS) to cause scarlet fever has been linked epidemiologically to the presence of novel prophages

DNAJC13 p.Asn855Ser, implicated in familial parkinsonism, alters membrane dynamics of sorting nexin 1.

Jordan Follett et al.

Neuroscience letters, 706, 114-122 (2019-05-15)

DNAJC13 (RME-8) is a core co-chaperone that facilitates membrane recycling and cargo sorting of endocytosed proteins. DNAJ/Hsp40 (heat shock protein 40) proteins are highly conserved throughout evolution and mediate the folding of nascent proteins, and the unfolding, refolding or degradation

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PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

Poly-lysine | Poly-D-Lysine | Poly-L-Lysine

Poly-Lysine enhances electrostatic interaction between negatively-charged ions of the cell membrane and positively-charged surface ions of attachment factors on the culture surface. When adsorbed to the culture surface, it increases the number of positively-charged sites available for...

Extracellular Matrix Proteins and Tools for Cell Culture Optimization

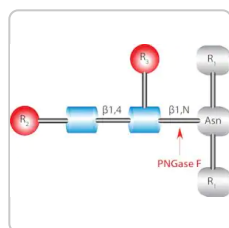
Extracellular matrix proteins such as laminin, collagen, and fibronectin can be used as cell attachment substrates in cell culture.

Protocoles

Poly-L-Lysine Cell Attachment Protocol

Adhere cells to solid substrates using poly-lysine, which enhances electrostatic interaction between negatively charged ions of the cell membrane and the culture surface.

PRODUITS CONSULTÉS RÉCEMMENT



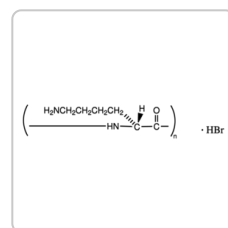
Sigma-Aldrich

P7367

PNGase F from *Elizabethkingia meningoseptica*

BioReagent, ≥95% (SDS-PAGE), for proteomics

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

P7280

Poly-D-lysine hydrobromide

average mol wt 30,000-70,000, lyophilized powder, γ-irradiated, BioReagent, suitable for cell culture

[Consulter le prix et la disponibilité](#)

Évaluations



Soyez le premier à donner votre avis sur ce produit

Questions

Soyez le premier à poser une question

SERVICE TECHNIQUE

Notre équipe de scientifiques dispose d'une expérience dans tous les secteurs de la recherche, notamment en sciences de la vie, science des matériaux, synthèse chimique, chromatographie, analyse et dans de nombreux autres domaines..

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