

FT-WT8550



Labeled Poly(L-lysine)

Products Description

Product name cat.number	MW (g·mol ⁻¹)	λ_{exc} λ_{em} max. (nm)	Loading rate (dye/molecule)
FITC-PolyLysine FP-WT8530, 2mg	25 kDa	494/525	3-8
Rhodamine-PolyLysine FP-WT8540, 2mg	25 kDa	544/571	3-8
CY_{anine}3-PolyLysine FP-WT8550, 2mg	25 kDa	552/570	3-8
CY_{anine}5-PolyLysine FP-WT8560, 2mg	25 kDa	683/707	3-8
CY_{anine}7-PolyLysine FP-WT8570, 2mg	25 kDa	743/767	3-8
Biotin-PolyLysine FP-WT8580, 2mg	25 kDa		10-15
Biotin & FITC-PolyLysine FP-LV6480, 2mg	25 kDa	494/525	10-15

Storage: +4°C Protect from light and moisture

Solubility: >10 mg/ml in water, not soluble in ethanol, methanol, etc.

Labeled poly-lysine L conjugates are purified by chromatography to ensure adequate applications both *in vitro* and *in vivo* biology applications.

Introduction

Polylysine is used to coated culturewares prompting cell growth or slide before cell analysis. Labeled polylysine conjugates utilize the properties of poly-lysine, and of the fluorophores dyes that enable detection for quantification or localisation in complex systems (cells), i.e. by imaging.

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Polylysine has DNA-binding and -condensing properties and is thus able to mediate interaction with DNA ([Wagner et al, 1991](#); [Perales et al, 1994](#)). Upon formation of a DNA-poly-lysine-ligand complex (polyplex ([Felgner et al, 1997](#))), gene transfer is facilitated via receptor-mediated endocytosis ([Hashida et la, 2004](#)). poly-lysine are able to substitute for histones, hence labeled conjugates are useful probes to study histones, nuclei structure,...

Poly-lysine is used for many applications, to fonctionnalize culture ware and other cell analytical supports as well as surface for oligonucleotide ([Elena, 2004](#)). In each of the applications, labeled poly-lysine may be useful.

Directions for use

Guidelines for use

Protocol may be found in the literature.

References

- **Elena P.** *et al*, 2004: Poly(-lysine)-mediated immobilisation of oligonucleotides on carboxy-rich polymer surfaces ; Biosensors and Bioelectronics Volume 19, Issue 11, 15 June 2004, Pages 1363-1370 ; [Article](#)
- **Hashida H** *et al*, 2004; Br J Cancer. 2004 March 22; 90(6): 1252–1258. Fusion of HIV-1 Tat protein transduction domain to poly-lysine as a new DNA delivery tool. [Article](#)
- **Hirano K.** *et al.*, 2003: The Proteasome Is Involved in the Degradation of Different Aquaporin-2 Mutants Causing Nephrogenic Diabetes Insipidus, *Am. J. Pathol.*, 163: 111 - 120 (2003) [Article](#)
- **Sonawane N.** *et al.*, 2003: Chloride Accumulation and Swelling in Endosomes Enhances DNA Transfer by Polyamine-DNA Polyplexes, *J. Biol. Chem.*, 278: 44826 - 44831 (2003) [Article](#)
- **Wang X.** *et al.*, Cancer stem cell labeling using poly(L-lysine)-modified iron oxide nanoparticles, *Biomaterials*, 33(14):3719-32 (2012) [Article](#)
- **Wong E.** *et al.*, 1996: Involvement of p90^{rk} in Neurite Outgrowth Mediated by the Cell Adhesion Molecule L1, *J. Biol. Chem.*, 271: 18217 (1996) [Article](#)

Technical and scientific information

Related / associated products and documents

See [BioSciences Innovations catalogue](#) and [e-search tool](#).

- FITC-dextran, [FP-67369A](#)

Also available:

PolyLysine	AKG460
Cultrex PolyLysine, certified	794511
PolyLysine Hydrobromide	ANI420
PolyLysine Plates	Q74480
Molday ION	GV6230

Ordering information

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