

Recombinant Human Lamin-A Protein, His tagged

Cat. No. LMNA-28297TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Lamin A produced in E. coli is a single, non-glycosylated polypeptide chain containing 645 amino acids and having a molecular mass of 70 kDa. Lamin-A protein is fused to a 6×His tag at N-terminus and purified by conventional chromatography techniques.
Species	Human
Source	E.coli
Description	The protein encoded by this gene is part of the nuclear lamina, a two-dimensional matrix of proteins located next to the inner nuclear membrane. The lamin family of proteins make up the matrix and are highly conserved in evolution. During mitosis, the lamina matrix is reversibly disassembled as the lamin proteins are phosphorylated. Lamin proteins are thought to be involved in nuclear stability, chromatin structure and gene expression. Vertebrate lamins consist of two types, A and B. Alternative splicing results in multiple transcript variants. Mutations in this gene lead to several diseases: Emery-Dreifuss muscular dystrophy, familial partial lipodystrophy, limb girdle muscular dystrophy, dilated cardiomyopathy, Charcot-Marie-Tooth disease, and Hutchinson-Gilford progeria syndrome.
Tag	N-6×His
Form	Sterile filtered colorless solution.
Molecular Mass	70 kDa

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AA Sequence	HHHHHH-METPSQRRATRSGAQASSTPLSPTRITRLQEKEDLQELNDRLAVYIDRVH SLETENAGLRLRITESEEVVSREVSGIKAAAYEALGDARKTLDSVAKERARLQLELSK VREEFKELKARNTKKEGDLIAAQARLKDLEALLNSKEAALSTALSEKRTLEGELHDLR GQVAKLEAALGEAKKQLQDEMLRRVDAENRLQTMKEELDFQKNIYSEELRETKRRH ETRLVEIDNGKQREFESRLADALQELRAQHEDQVEQYKKELEKTYSAKLDNARQSA ERNNSNLVGAAHEELQQSRIRIDSLSAQLSQLQKQLAAKEAKLRDLEDLARERDTSR RLLAEKEREMAEMRARMQQQLDEYQELLDIKLALDMEIHAYRKLLLEGEEERLRLSPS PTSQRSRGRASSHSQTQGGGSVTKKRKLESTESRSSFSQHARTSGRVAVEEVDE EGKFVRLRNKSNEDQSMGNWQIKRQNGDDPLLTYRFPKFTLKAGQVVTIWAAGA GATHSPPTDLVWKAQNTWGCNSLRTALINSTGEEVAMRKLVRSVTVVEDEDED GDDLLHHHHGSHCSSSGDPAEYNLRSRTVLCGTCGQPADKASASGSGAQVGGPIS SGSSASSVTVTRSYRSVGGSGGGSFGDNLVTRS
Purity	Greater than 90.0% as determined by SDS-PAGE.
Notes	Our products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.
Storage	Store at 4 centigrade if entire vial will be used within 2-4 weeks. Store, frozen at -20 centigrade for longer periods of time. Avoid multiple freeze-thaw cycles.
Concentration	0.9 mg/mL
Storage Buffer	20mM phosphate buffer pH 7.0, 500mM NaCl, 1mM DTT, 1.5mM EDTA and 20% (v/v) Glycerol.
Shipping	Shipped with Ice Packs

GENE INFORMATION

Gene Name	LMNA lamin A/C [Homo sapiens (human)]
Official Symbol	LMNA
Synonyms	LMNA; lamin A/C; FPL; IDC; LFP; CDDC; EMD2; FPLD; HGPS; LDP1; LMN1; LMNC; MADA; PRO1; CDCD1; CMD1A; FPLD2; LMNL1; CMT2B1; LGMD1B; lamin; 70 kDa lamin; epididymis secretory sperm binding protein; lamin A/C-like 1; lamin C; mandibuloacral dysplasia type A; prelamin-A/C; progerin; renal carcinoma antigen NY-REN-32
Gene ID	4000
mRNA Refseq	NM_170708
Protein Refseq	NP_733822
MIM	150330
UniProt ID	P02545