

Prelamin-A Recombinant Protein | LMNA recombinant protein

Recombinant Prelamin-A

CATALOG #
AAA38700HOST
E Coli

PRODUCT SYNONYMS

Prelamin-A; Recombinant Prelamin-A; Prelamin-A/C; LMNA; LMN1; FPL; IDC; LFP; CDDC; EMD2; FPLD; HGPS; LDP1; LMNC; PRO1; CDCD1; CMD1A; FPLD2; LMNL1; CMT2B1; LGMD1B.; LMNA recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Form/Format	The Prelamin-A solution (0.1mg/ml) contains 10% Glycerol.
Sequence	HHHHH-MET PSQRRATRSQ AQSSTPLSP TRITRLQEKE DLQELNDRLA VYIDRVHSLE TENAGRLRLRI TESEEVVSRE VSGIKAAYEA ELGDARKTLD SVAKERARLQ LELSKVREEF KELKARNTKK EGDILAAQAR LKDLEALLNS KEAALSTALS EKRTLEGELH DLRGQVAKLE AALGEAKKQL QDEMLRRVDA ENRLQTMKEE LDFQKNYSE ELRETKRRHE TRLVEIDNGK QREFESRLAD ALQELRAQHE DQVEQYKKEL EKTYSAKLDN ARQSAERNSN LVGAAHEELQ QSRIRIDSLS AQLSQLQKQL AAKEAKLRDL EDSLARERDT SRLLAEKER EMAEMRARMQ QQLDEYQELL DIKLALDMEI HAYRKLEGE EERLRLSPSP TSQRSRGRAS SHSSQTQGGG SVTKKRKLES TESRSSFSQH ARTSGRVAVE EVDEEGKFVR LRNKSNEQDS MGNWQIKRQN GDDPLLTYRF PPKFTLKAGQ VVTIWAAGAG ATHSPPTDLV WKAQNTWGCG NSLRTALINS TGEEVAMRKL VRSVTVVEDD EDEDGDDLLH HHHGSHCSSS GDAEYNLRS RTVLCGTCGQ PADKASASGS GAQVGGPISS GSSASSVTVT RSYRSVGGSG GGSFGDNLVT RSYLLGNSSP RTQSPQNCISI M
Sequence Length	574
Physical Appearance	Sterile filtered colorless solution.
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. For long term storage, it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for LMNA recombinant protein	Recombinant Prelamin-A is a 74kDa precursor of the nuclear lamin A protein. Prelamin-A is a structural component of the nuclear lamina and it is encoded by lamin A/C gene (LMNA). Due to the presence of a CAAX box sequence at carboxyl terminus, Prelamin-A in vivo goes through a series of post-translational modifications, resulting in the farnesylation of the cysteine thiol, removal of the AAX tripeptide, carboxyl-methylation of the cysteinyl carboxy group and proteolysis of 18 C-terminal amino acids residues that lead to mature lamin A. Diverse mutations in the lamin A/C gene are associated with different diseases that are collectively called laminopathies, including Emery-Dreifuss muscular dystrophy, familial partial lipodystrophy, limb girdle muscular dystrophy, dilated cardiomyopathy, Charcot-Marie-Tooth disease, and Hutchinson-Gilford progeria syndrome. Recombinant human prelamin A is fused to a 6 Histidine tag at the N-terminus.
Product Categories/Family for LMNA recombinant protein	Recombinant & Natural Proteins ; Recombinant Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	383792150
NCBI GeneID	4000

NCBI Accession #	NP_001244303.1
NCBI GenBank Nucleotide #	NM_001257374.2
UniProt Accession #	P02545 ; P02546 ; Q5I6Y4 ; Q5I6Y6 ; Q5TCJ2 ; Q5TCJ3 ; Q6UYC3 ; Q969I8 ; B4DI32 ; D3DVB0 ; D6RAQ3 ; E7EUI9
NCBI Official Full Name	lamin isoform D
NCBI Official Synonym Full Names	lamin A/C
NCBI Official Symbol	LMNA
NCBI Official Synonym Symbols	FPL; IDC; LFP; CDDC; EMD2; FPLD; HGPS; LDP1; LMN1; LMNC; PRO1; CDCD1; CMD1A; FPLD2; LMNL1; CMT2B1; LGMD1B
NCBI Protein Information	lamin; 70 kDa lamin; lamin A/C-like 1; prelamin-A/C; renal carcinoma antigen NY-REN-32
UniProt Protein Name	Prelamin-A/C
UniProt Gene Name	LMNA
UniProt Synonym Gene Names	LMN1
UniProt Entry Name	LMNA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/lmna-recombinant-protein-e-coli/38700>