

32-4495: Recombinant Prelamin-A

Alternative Name : Prelamin-A/C, LMNA, LMN1, FPL, IDC, LFP, CDDC, EMD2, FPLD, HGPS, LDP1, LMNC, PRO1, CDCD1, CMD1A, FPLD2, LMNL1, CMT2B1, LGMD1B.

Description

Source : Escherichia Coli. 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 serial 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 Info

Amount : 10 µg

Purification : Greater than 90% as determined by SDS-PAGE.

Content : The Prelamin-A solution (0.1mg/ml) contains 10% Glycerol.

Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°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.

Amino Acid : metpsqrrat rsgaqasstp lsptritrq ekedlqelnd rlayidrvr sletenaglr lriteseevv srevsgikaa yeaeldark tldsvakera rlqlelskvr eefkelkarn tkkegdliaa qarlkdeale inskeaalst alsekrteleg elhdrlggva kleaalgeak kqlqdemlrr vdaenrlqtm keeldfqkni yseelretr rhetriveid ngkqrefesr ladalqelra qhedqveqyk kelektysak ldnarqsaer nsnlvgaahelqqsririd slsaqlsqliq kqlaakeakl rdledslare rdtsrllae keremaemra rmqqqldeyq elldiklald meihayrkll egeeerlrls psptsqrsrg rasshssqtq gggsvtkkrk lestesrssf sqhartsgrv aveevdeegk fvrlrnksne dqsmgnwqik rqnqddpilt yrfppkftlk agqvvtiwaagagathsppt dlvwkaqntw gcgnslrtal instgeevam rkivrsvtvv eddededgdd llhhhgshc sssgdpaeyn lrsrtvlcgt cgqpadkasa sgsgaqvggp issgssassv tvtrsyrsvg gsgggsfgdn lvtrsyllgn ssprtqspqn csim

