



# Recombinant Human Prelamin-A/C (LMNA)

<b>Product Code</b>	CSB-YP013003HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P02545
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	METPSQRRATRSGAQASSTPLSPTRITRLQEKEDLQELNDRLAVYIDRVRSLE TENAGLRLRITESEEVVSREVSGIKAAYEAE LGDARKTLDSVAKERARLQLELS KVREEFKELKARNTKKEGDLIAAQARLKDLEALLNSKEAALSTALSEKRTLEGE LHDLRGQVAKLEAALGEAKKQLQDEMLRRVDAENRLQTMKEELDFQKNIYSE ELRETKRRHETRLVEIDNGKQREFESRLADALQELRAQHEDQVEQYKKELEKT YSAKLDNARQSAERNSNLVGAHEELQQSRIRIDSLSAQLSQLQKQLAAKEAK LRDLEDSLARERDTSRLLAEKEREMAEMRARMQQQLDEYQELLDIKLALDM EIHAYRKLLLEGEEERLRLSPSPTSQRSRGRASSHSSQTQGGGSVTKKRKLEST ESRSSFSQHARTSGRVAVEEVDEEGKFVRLRNKSNEDQSMGNWQIKRQNGD DPLLTYRFPPKFTLKAGQVVTIWAAGAGATHSPPTDLVWKAQNTWGCNSLR TALINSTGEEVAMRKLVRVTVVEDDEDEDGDDLLHHHHGSHCSSSGDPAEY NLRRTVLCGTCGQPADKASASGSGAQVGGPISSGSSASSVTVTRSYRSVGG SGGGSFGDNLVTRSY
<b>Source</b>	Yeast
<b>Target Names</b>	LMNA
<b>Protein Names</b>	Recommended name: Prelamin-A/Ccleaved into the following chain: 1. Lamin-A/C Alternative name(s): 70 kDa lamin Renal carcinoma antigen NY-REN-32
<b>Expression Region</b>	1-646
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	The nuclear lamina consists of 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. Through alternate splicing, this gene encodes three type A lamin isoforms. 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.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the



contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.