

## 32-13295: LMNA Rat

**Alternative Name :** Prelamin-A/C, Lamin-A/C, 70 kDa lamin, LMNA, LMN1, Renal carcinoma antigen NY-REN-32, Progerin.

### Description

Source: Escherichia Coli.

Sterile filtered colorless solution.

Lamin-A is a major component of the nuclear lamina, a dynamic meshwork located just under the nuclear envelope and it is encoded by lamin A/C gene (LMNA). Lamin-A is synthesized as Prelamin A, a longer precursor that in vivo goes through a serial post-translational modifications 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.

LMNA Rat Recombinant fused with a His tag produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 614 amino acids and having a molecular mass of 68.0kDa. The LMNA is purified by proprietary chromatographic techniques.

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Greater than 90.0% as determined by SDS-PAGE.

**Content :** The LMNA solution contains 20mM Tris-HCl pH 7.5, 1mM DTT, 0.3M NaCl, 1.5mM EDTA and 10%(v/v) 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 LSPTRITRLQ EKEDLQELND RLAVYIDRVR SLETENAGLR LRITSEEEVV SREVSGIKAA YEELGDARK TLDSVAKERA RLQLELSKVR EEFKELKARN TKKEGDLLAA QARLKDLEAL LNSKEAALST ALSEKRTLEG ELHDLRGQVA KLEAALGEAK KQLQDEMLRR VDAENRLQTL KEELDFQKNI YSEELRETKR RHETRLVEID NGKQREFESR LADALQELRA QHEDQVEQYK KELEKTYSAK LDNARQSAER NSNLVGAAHE ELQQSRIRID SLQAQLSQLQ KQLAAKEAKL RDLEDSLARE RDTSRRLAE KEREMAEMRA RMQQQLDEYQ ELLDIKLALD MEIHAYRKLL EGEEERLRLS PSPTSQRSRG RASSHSSQSQ GGGSVTKKRK LESSESRSF SQHARTSGRV AVEEVDEEGK FVRLRNKSNE DQSMGNWQIR RQNGDDPLMT YRFPPKFTLK AGQVVTIWAS GAGATHSPPT DLVWKAQNTW GCGSSLRTAL INATGEEVAM RKLVRSLTMV EDDDEDGDD LLHHHHGSHC SSSGDPAEYN LRSRTVLCGT CGQPADKASA SGSGAQVSSQ NCSIM