9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
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LMNA Human

Lamin A/C Human Recombinant
RCP1254

Product Overview

Name	LMNA Human
Description	
Lamin A/C Human Recombinant	
Accession (Primary)	P02545
Synonyms	
Prelamin-A/C, Lamin-A/C, 70 kDa lamin, LMNA, LMN1, Renal carcinoma antigen NY-REN-32, Progerin.	
Introduction	
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 laminophaties, including Emery-Dreifuss muscular dystrophy, familiar partial lipodystrophy, limb girdle muscular dystrophy, dilated cardiomyopathy, Charcot-Marie-Tooth disease, and Hutchinson-Gilford progeria syndrome.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile filtered colorless solution.	
Formulation	
The LMNA solution contains 20mM Tris-HCl pH 7.5, 1mM DTT, 0.5M NaCl, 1.5mM EDTA and 20%(v/v) glycerol.	
Stability	
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.	
Purity	
Greater than 90.0% as determined by SDS-PAGE.	
Amino acid sequence	
MAHHHHHHVG TGSNDDDDKS PDMETPSQRR ATRSGAQASS TPLSPTRITR LQEKEDLQEL NDRLAVYIDR VRSLETENAG LRLRITESEE VVSREVSGI KAAYEAELGD ARKTLDSVAK ERARLQLELS KVREEFKELK ARNTKKEGDL IAAQARLKDL EALLNSKEAA LSTALSEKRT LEGELHDLRG QVAKLEAALG EAKKQLQDEM	

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LRRVDAENRL QTMKEELDFQ KNIYSEELRE TKRRHETRLV EIDNGKQREF ESRLADALQE LRAQHEDQVE QYKKELEKTY SAKLDNARQS AERNSNLVGA AHEELQQSRI RIDSLSAQLS QLQKQLAAKE AKLRDLEDSL ARERDTSRRL LAEKEREMAE MRARMQQQLD EYQELLDIKL ALDMEIHAYR KLLEGEEERL RLSPSPTSQR SRGRASSHSS QTQGGGSVTK KRKLESTESR SSFSQHARTS GRVAVEEVDE EGKFVRLRNK SNEDQSMGNW QIKRQNGDDP LLTYRFPPKF TLKAGQVVTI WAAGAGATHS PPTDLVWKAQ NTWGCGNSLR TALINSTGEE VAMRKLVRSV TVVEDDEDED GDDLLHHHHG SHCSSSGDPA EYNLRSRTVL CGTCGQPADK ASASGSGAQS PQNCSIM

Precautions

LMNA Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P02545)