9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

Lamin-A Human

Lamin-A Human Recombinant
RCP1216

Product Overview

Name	Lamin-A Human
Description	
Lamin-A Human Recombinant	
Accession (Primary)	P02545
Synonyms	
Prelamin-A/C, LMNA, LMN1, Lamin-A/C, 70 kDa lamin, Renal carcinoma antigen NY-REN-32, FPL, IDC, LFP, CDDC, EMD2, FPLD, HGPS, LDP1, LMNC, PRO1, CDCD1, CMD1A, FPLD2, LMNL1, CMT2B1, LGMD1B.	
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 Lamin-A Protein solution (0.9mg/ml) contains 20mM phosphate buffer pH 7.0, 500mM NaCl, 1mM DTT, 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. Avoid multiple freeze-thaw cycles.	
Purity	
Greater than 90.0% as determined by SDS-PAGE.	
Amino acid sequence	
HHHHHH- METPSQRRATRSGAQASSTPLSPTRITRLQEKEDLQELNDRLAVYIDRVHSLETENAGLRLRITES	

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EEVVSREVSGIKAAYEAELGDARKTLDSVAKERARLQLELSKVREEFKELKARNTKKEGDLIAAQA
RLKDLEALLNSKEAALSTALSEKRTLEGELHDLRGQVAKLEAALGEAKKQLQDEMLRRVDAENRL
QTMKEELDFQKNIYSEELRETKRRHETRLVEIDNGKQREFESRLADALQELRAQHEDQVEQYKKE
LEKTYSAKLDNARQSAERNSNLVGAAHEELQQSRIRIDSLSAQLSQLQKQLAAKEAKLRDLEDSLA
RERDTSRRLLAEKEREMAEMRARMQQQLDEYQELLDIKLALDMEIHAYRKLLEGEEERLRLSPSP
TSQRSRGRASSHSSQTQGGGSVTKKRKLESTESRSSFSQHARTSGRVAVEEVDEEGKFVRLRN
KSNEDQSMGNWQIKRQNGDDPLLTYRFPPKFTLKAGQVVTIWAAGAGATHSPPTDLVWKAQNT
WGCGNSLRTALINSTGEEVAMRKLVRSVTVVEDDEDEDGDDLLHHHHGSHCSSSGDPAEYNLRS
RTVLCGTCGQPADKASASGSGAQVGGPISSGSSASSVTVTRSYRSVGGSGGGSFGDNLVTRS

Precautions

Lamin-A Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P02545)