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## Recombinant Human Lamin A

**REP0040 – REP0041**  
**100µg – 50µg**

<b>Description</b>	<p>Recombinant human lamin A is a 645 amino acids protein with a molecular weight of 70 kDa. 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 (<i>LMNA</i>).</p> <p>Lamin A is synthesized as a longer precursor, prelamin A (code REP0038), that <i>in vivo</i> undergoes to serial post-translational modifications that lead to mature lamin A.</p> <p>Different mutations in the <i>LMNA</i> gene have been associated with different diseases that are collectively called <i>laminopathies</i>, including Emery-Dreifuss muscular dystrophy, familiar partial lipodystrophy, limb girdle muscular dystrophy, dilated cardiomyopathy, Charcot-Marie-Tooth disease, and Hutchinson-Gilford progeria syndrome.</p>
<b>Product type</b>	Recombinant protein
<b>Peptide</b>	Recombinant mature protein: human lamin A sequence, from 1 to 645 of Prelamin A amino acidic sequence (Accession number: <b>NP_733821</b> ) with N-terminal His tag and DDDDK tag.
<b>Sequence</b>	<p>MAHHHHHHVGTGSDNDDDKSPDMETPSQRRATRSGAQASSTPLSPTRITRLQEKEDLQELNDR LAVYIDRVHSLETENAGLRLRI TESEEVVSREVS GIKAA YEALGDARKTLDSVAKERARLQELSKVREEFKELKARNTKKEGDLIAAQARLKDLEALLNSKEAALSTA LSEKRTLEGELHDLRGQVAKLEAALGEAKKQLQDEMLRRVDAENRLQTMKEELDFQKNIYSEELRETKRRRHETRLVEIDNGKQREF ESRLADALQELRAQHEDQVEQYKKELEKTYSAKLDNARQSAERNNSLVGAAHEELQQSRIRIDLSLAQLSQLQKQLAAKEAKLRDL EDSLARERDTSRRLAAKEREMAEMRARMQQQLDEYQELLDIKLALDMEIHAYRKLLLEGEEERLRLSPSPTSQRSRGRASSHSST QGGGSVTKKRKLESTESRSSFSQHARTSGRVAVEEVDEEGKFVRLRNKSNEDQSMGNWQIKRQNGDDPLLTYRFPFKFTLKAGQ VVTIWAAGAGATHSPPTDLVWKAQNTWGCNSLRTALINSTGEEVAMRKLVRSVTVVDEDEDGDDLLHHHHGSHCSSSGDP AEYNLRSTVLCGTGCGPADKASASGGAQVGGPISSGSSASSVTVTRSYRSVGGSGGGSFGDNLVTRS</p>
<b>Expression System</b>	<i>Escherichia coli</i>
<b>Tested by</b>	SDS Page, Western Blotting
<b>Purity</b>	>90% pure estimated by SDS-PAGE (EU Ph. 5.0 § 2.5.31)
	<p>Purified recombinant lamin A (5µg/lane) was separated by SDS-PAGE (8% polyacrylamide) and stained with Coomassie Blue.</p>
<b>Form</b>	Liquid
<b>Storage buffer</b>	20mM phosphate buffer pH 7.0, 0.5M NaCl, 1mM DTT, 1.5mM EDTA, 20%(v/v) glycerol.
<b>Storage instructions</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.