Recombinant Human LMNB1

Cat. No. LMNB1-29911TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 107-186 of Human Lamin B1 with a N terminal proprietary tag; predicted MWt 34.43 kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	80 amino acids
Description	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. This gene encodes one of the two B type proteins, B1. Alternative splicing results in transcript variants and a duplication of this gene is associated with autosomal dominant adult-onset leukodystrophy (ADLD).
Molecular Weight	34.430kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.3% Glutathione

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	LGKCKAEHDQLLLNYAKKESDLNGAQIKLREYEAALNSKDAALATALGDKKSLEGDL EDLKDQIAQLEASLAAAKKQLAD
Sequence Similarities	Belongs to the intermediate filament family.

GENE INFORMATION

Gene Name	LMNB1 lamin B1 [Homo sapiens]
Official Symbol	LMNB1
Synonyms	LMNB1; lamin B1; lamin-B1;
Gene ID	4001
mRNA Refseq	NM_001198557
Protein Refseq	NP_001185486
MIM	150340
Uniprot ID	P20700
Chromosome Location	5q23.2
Pathway	Apoptosis, organism-specific biosystem; Apoptotic cleavage of cellular proteins, organism-specific biosystem; Apoptotic executionphase, organism-specific biosystem;

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	Breakdown of the nuclear lamina, organism-specific biosystem; Caspase cascade in apoptosis, organism-specific biosystem;
Function	phospholipase binding; structural molecule activity;

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