Recombinant Human LMNA Protein (Gst Tag)

RPES8034

Product Information

Product SKU:	RPES8034	**Expression Host**:	E.coli	**Size**:	20µg
Tag:	N-Gst	**Reactivity**:	Human	**Accession**:	P02545

Additional Information

Calculated MW:	49.2 kDa	**Observed MW:**	55 kDa
Sequence:	Met1-Ser212		

Protein Information

Background: 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. Alternative splicing results in multiple transcript variants. Mutations in this gene lead to several diseases: Emery-Dreifuss muscular dystrophy, familial partial lipodystrophy, limb girdle muscular dystrophy, dilated cardiomyopathy, Charcot-Marie-Tooth disease, and Hutchinson-Gilford progeria syndrome.

Synonyms: 70 kDa lamin, Cardiomyopathy dilated 1A (autosomal dominant), CDCD1, CDDC, CMD1A, CMT2B1, EMD2, FPL, FPLD, FPLD2, HGPS, IDC, Lamin A, Lamin A/C, Lamin A/C like 1, Lamin, Lamin C, Lamin-A/C, LDP1, LFP, LGMD1B, Limb girdle muscular dystrophy 1B (autosomal dominant), LMN 1, LMN A, LMN C, LMN1, LMNA, LMNA, LMNC, LMNL1, Prelamin A/C, PRO1, Renal carcinoma antigen NY REN 32, Renal carcinoma antigen NY-REN-32, Renal carcinoma antigen NYREN32

Endotoxin: < 10 EU/mg of the protein as determined by the LAL method

Formulation: Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.

Purity: > 90% as determined by reducing SDS-PAGE.

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Bio-Activity: Not validated for activity

Storage: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

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