



# Recombinant Human Lamin-B1 (LMNB1)

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| <b>Product Code</b>      | CSB-EP013004HU-B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Uniprot No.</b>       | P20700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Immunogen Species</b> | Homo sapiens (Human)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purity</b>            | ≥85% (SDS-PAGE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Sequence</b>          | ATATPVPPR MGSRAGGPTT PLSPTRLSRL QEKEELRELN DRLAVYIDKV<br>RSLETENSAL QLQVTEREEV RGRELTGLKA LYETELADAR RALDDTARER<br>AKLQIELGKC KAEHDQLLLN YAKKESDLNG AQIKLREYEA ALNSKDAALA<br>TALGDKKSLE GDLEDLKDQI AQLEASLAAA KKQLADETLL KVDLENRCQS<br>LTEDLEFRKS MYEEEINETR RKHETRLVEV DSGRQIEY EY KLAQALHEMR<br>EQHDAQVRLY KEELEQTYHA KLENARLSSE MNTSTVNSAR EELMESRMRI<br>ESLSSQLSNL QKESRACLER IQELEDLLAK EKDNSRRMLT DKEREMAEIR<br>DQMQQQLNDY EQLLDVKLAL DMEISAYRKL LEGEEERLKL SPSPSSRVTV<br>SRASSRSVR TTRGKRKRVD VEESEASSSV SISHSASATG NVCIEEIDVD<br>GKFIRLKNTS EQDQPMGGWE MIRKIGDTSV SYKYTSRYVL KAGQVTIWA<br>ANAGVTASPP TDLIWKQNS WGTGEDVKVI LKNSQGEEVA QRSTVFKTTI<br>PEEEEEEEEA AGVVVEEELF HQQGTPRASN RSC |
| <b>Source</b>            | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Target Names</b>      | LMNB1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Protein Names</b>     | Recommended name: Lamin-B1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Expression Region</b> | 2-583                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Protein Length</b>    | Full Length of Mature Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Target Details</b>    | <p>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.</p>                                                                                                                                                            |
| <b>Reconstitution</b>    | <p>We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.</p>                                                                                                                                                                                                                                                                              |



## Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.