

## Recombinant Full Length Human CELA3B Protein, N-GST/C-His-tagged

**Cat. No.** CELA3B-14HFL    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Product Overview</b> | Recombinant Full Length Human CELA3B Protein, fused to GST-tag at N-terminus and His-tag at C-terminus, was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | <p>Elastases form a subfamily of serine proteases that hydrolyze many proteins in addition to elastin. Humans have six elastase genes which encode the structurally similar proteins elastase 1, 2, 2A, 2B, 3A, and 3B. Unlike other elastases, elastase 3B has little elastolytic activity. Like most of the human elastases, elastase 3B is secreted from the pancreas as a zymogen and, like other serine proteases such as trypsin, chymotrypsin and kallikrein, it has a digestive function in the intestine. Elastase 3B preferentially cleaves proteins after alanine residues. Elastase 3B may also function in the intestinal transport and metabolism of cholesterol. Both elastase 3A and elastase 3B have been referred to as protease E and as elastase 1, and excretion of this protein in fecal material is frequently used as a measure of pancreatic function in clinical assays.</p> |
| <b>Form</b>             | 50mM Tris, pH8.0, 8M Urea.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Mass</b>   | 29.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>AA Sequence</b>      | A DNA sequence encoding the region full length of CELA3B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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|                         |                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining.                                                                                  |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| <b>Storage</b>          | Store at -80 centigrade after receiving vials.                                                                                                |
| <b>Concentration</b>    | >0.05 µg/µl as determined by microplate BCA method.                                                                                           |
| <b>Protein Families</b> | Druggable Genome, Protease                                                                                                                    |
| <b>Full Length</b>      | Full L.                                                                                                                                       |

## GENE INFORMATION

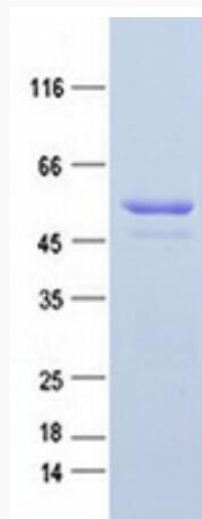
|                        |                                                               |
|------------------------|---------------------------------------------------------------|
| <b>Gene Name</b>       | CELA3B chymotrypsin like elastase 3B [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | CELA3B                                                        |
| <b>Synonyms</b>        | CBPP; ELA3B                                                   |
| <b>Gene ID</b>         | 23436                                                         |
| <b>mRNA Refseq</b>     | NM_007352.4                                                   |
| <b>Protein Refseq</b>  | NP_031378.1                                                   |
| <b>MIM</b>             | 618694                                                        |
| <b>UniProt ID</b>      | P08861                                                        |

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## SDS-PAGE



Coomassie blue staining of purified CELA3B protein.

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