

Recombinant Full Length Human CELA3B Protein, GST-tagged

Cat. No. CELA3B-650HF Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant full length Human CELA3B(1 a.a. - 270 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.

Species Human

Source In Vitro Cell Free System

ProteinLength 270 amino acids

Description 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.

Form 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Molecular Mass 55.44 kDa

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AA Sequence

MMLRLLSSPL LVAVASGYGP PSSRPSSRVV NGEDAVPYSW PWQVSLQYEK
 SGSFYHTCGG SLIAPDWVVT AGHCISSSWT YQVVLGEYDR AVKEGPEQVI
 PINSGDLFVH PLWNRSCVAC GNDIALIKLS RSAQLGDAVQ LASLPPAGDI
 LPNETPCYIT GWGRLYTNGP LPDKLQEALL PVVDYEHCSR WNWVGSSVKK
 TMVCAGGDIR SGCNGDSGGP LNCPTEDGGW QVHGVTSFVS AFGCNTRRKP
 TVFTRVSAFI DWIEETIASH

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name [CELA3B chymotrypsin-like elastase family, member 3B \[Homo sapiens \]](#)

Official Symbol [CELA3B](#)

Synonyms

CELA3B; chymotrypsin-like elastase family, member 3B; ELA3B, elastase 3B, pancreatic; chymotrypsin-like elastase family member 3B; CBPP; cholesterol binding pancreatic protease; elastase 1; pancreatic endopeptidase E; proteinase E; protease E; elastase-3B; elastase IIIB; fecal elastase 1; pancreatic elastase 1; elastase 3B, pancreatic; cholesterol-binding pancreatic protease; E1; EL-1; ELA3B

Gene ID [23436](#)

mRNA Refseq [NM_007352](#)

Protein Refseq [NP_031378](#)

MIM [618694](#)

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UniProt ID

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