

Recombinant Human CELA3A protein, His & GST-tagged

Cat. No. CELA3A-1162H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CELA3A aa. (Ser16~His270 fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ser16~His270
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 3A has little elastolytic activity. Like most of the human elastases, elastase 3A 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 3A preferentially cleaves proteins after alanine residues. Elastase 3A 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.
Form	Freeze-dried powder
Molecular Mass	58kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1g (determined by the LAL method)

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Purity	>95%
Characteristic	The isoelectric point is 6.2.
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200µg/mL
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	CELA3A chymotrypsin like elastase family member 3A [Homo sapiens (human)]
Official Symbol	CELA3A
Synonyms	CELA3A; chymotrypsin like elastase family member 3A; ELA3; ELA3A; chymotrypsin-like elastase family member 3A; elastase 1; elastase 3A, pancreatic; elastase IIIA; elastase-3A; protease E

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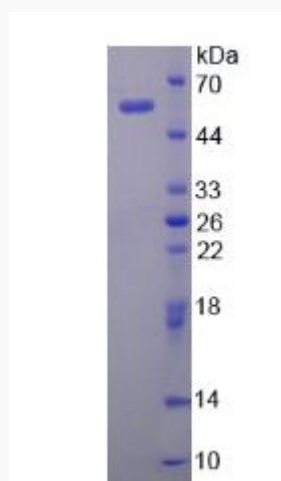
Gene ID 10136

mRNA Refseq NM_005747.4

Protein Refseq NP_005738.4

UniProt ID P09093

SDS-PAGE



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