

Recombinant Human CELA3A, His-tagged

Cat. No. CELA3A-64H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Chymotrypsin-Like Elastase Family Member 3A/CELA3A is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Ser16-His270) of Human CELA3A fused with a 6His tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	16-270 a.a.
Description	Chymotrypsin-Like Elastase Family Member 3A (CELA3A) is an enzyme that contains one peptidase S1 domain. ELA3A belongs to the peptidase S1 family of the Elastase subfamily. ELA3A 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. ELA3A may also function in the intestinal transport and metabolism of cholesterol. ELA3A is efficient protease with alanine specificity but only little elastolytic activity. ELA3A preferentially cleaves proteins after alanine residues.
AA Sequence	SGYGPPSSHSSSRVHGEDAVPYSWPWQVSLQYEKSGSFYHTCGGSLIAPDWVVT AGHCISRDLT YQVVLGEYNLAVKEGPEQVIPINSEELFVHPLWNRSCVACGN DIALIK LSRSAQLGDAVQLASLP PAGDILPNKTPCYITGWGRLYTNGPLPDKLQQARLPVVD YKHCSRWNWWGSTVKKTMVCAGGYIR SGCNGDSGGPLNCPTEDGGWQVHGVT SFVSGFGCNFIWKPTVFTRVSAFIDWIEETIASHVDHHH HHH

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Endotoxin	Less than 0.1 ng/μg (1 IEU/μg).
Purity	Greater than 95% as determined by reducing SDS-PAGE.
GENE INFORMATION	
Gene Name	CELA3A chymotrypsin-like elastase family, member 3A [Homo sapiens]
Official Symbol	CELA3A
Synonyms	CELA3A; chymotrypsin-like elastase family, member 3A; ELA3A, elastase 3A, pancreatic , elastase 3A, pancreatic (protease E); chymotrypsin-like elastase family member 3A; ELA3; protease E; elastase 1; elastase-3A; elastase IIIA; elastase 3A, pancreatic; ELA3A;
Gene ID	10136
mRNA Refseq	NM_005747
Protein Refseq	NP_005738
UniProt ID	P09093
Chromosome Location	1p36.12
Pathway	Pancreatic secretion, organism-specific biosystem; Pancreatic secretion, conserved biosystem; Protein digestion and absorption, organism-specific biosystem; Protein digestion and absorption, conserved biosystem;
Function	peptidase activity; serine-type endopeptidase activity;

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