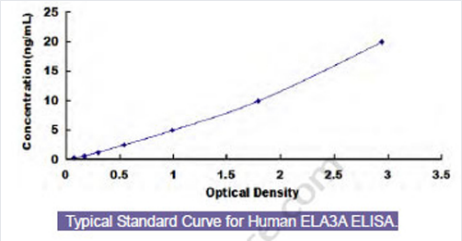
Elastase 3a (ELA3A) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Elastase 3A (ELA3A), ELISA Kit
Full Product Name	Human Elastase 3A (ELA3A) ELISA Kit
Product Gene Name	ELA3A elisa kit
Product Synonym Names	CELA3A; ELA3; Chymotrypsin-Like Elastase Family Member 3A; Protease E
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, plasma, tissue homogenates and other biological fluids.
Detection Range	0.312-20ng/mL
Sensitivity	0.113ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of ELA3A. No significant cross-reactivity or interference between ELA3A and analogues was observed.
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level ELA3A were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level ELA3A were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	29,489 Da
3D Structure	ModBase 3D Structure for P09093
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for ELA3A elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of ELA3A in human serum, plasma, tissue homogenates and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to ELA3A. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to ELA3A. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain ELA3A, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of ELA3A in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of ELA3A elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ELA3A purchase	MBS455447 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Elastase 3A (ELA3A) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing ELA3A. The ELISA analytical biochemical technique of the MBS455447 kit is based on ELA3A antibody-ELA3A antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ELA3A antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ELA3A. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of ELA3A elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ELA3A. It may not necessarily be applicable to this product.

NCBI GI #	236460050
NCBI GeneID	10136
NCBI Accession #	NP_005738.4
UniProt Primary Accession #	P09093
UniProt Secondary Accession #	Q9BRW4; B1AQ53
UniProt Related Accession #	P09093
GenBank Nucleotide #	NM_005747.4
NCBI Official Full Name	chymotrypsin-like elastase family member 3A preproprotein
NCBI Official Synonym Full Names	chymotrypsin like elastase family member 3A
NCBI Official Symbol	CELA3A
NCBI Official Synonym Symbols	ELA3; ELA3A
UniProt Protein Name	Chymotrypsin-like elastase family member 3A
UniProt Synonym Protein Names	Elastase IIIA; Elastase-3A; Protease E
UniProt Gene Name	CELA3A
UniProt Synonym Gene Names	ELA3; ELA3A
NCBI Protein Information	chymotrypsin-like elastase family member 3A
NCBI Summary for ELA3A	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. [provided by RefSeq, Jul 2008]
UniProt Comments for ELA3A	Efficient protease with alanine specificity but only little elastolytic activity.
Research Articles on ELA3A	**1.** expression of PE IIIA and its splicing variants in pancreatic carcinoma cells
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