

Datasheet for ABIN5510696

PRSS3 ELISA Kit**1** Image[Go to Product page](#)

Overview

Quantity:	96 tests
Target:	PRSS3
Binding Specificity:	AA 16-247
Reactivity:	Human
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Pan Trypsin
Brand:	PicoKine™
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Expression system for standard: NSO Immunogen sequence: A16-S247
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Characteristics:	Tissue Specificity: Expressed in pancreas and brain. Also expressed in Paneth cells, at the base of small intestinal crypts. .

Target Details

Target:	PRSS3
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Target Details

Alternative Name: PRSS3 ([PRSS3 Products](#))

Background: Protein Function: Digestive protease specialized for the degradation of trypsin inhibitors. In the ileum, may be involved in defensin processing, including DEFA5. .

Background: Trypsin is a serine protease from the PA clan superfamily, found in the digestive system of many vertebrates, where it hydrolyses proteins. In the duodenum, trypsin catalyzes the hydrolysis of peptide bonds, breaking down proteins into smaller peptides. The peptide products are then further hydrolyzed into amino acids via other proteases, rendering them available for absorption into the blood stream. Tryptic digestion is a necessary step in protein absorption as proteins are generally too large to be absorbed through the lining of the small intestine. Additionally, Trypsin is produced as the inactive zymogen trypsinogen in the pancreas. When the pancreas is stimulated by cholecystokinin, it is then secreted into the first part of the small intestine (the duodenum) via the pancreatic duct. Once in the small intestine, the enzyme enteropeptidase activates trypsinogen into trypsin by proteolytic cleavage. Auto catalysis can happen with trypsin using trypsinogen as the substrate. This activation mechanism is common for most serine proteases, and serves to prevent autodegradation of the pancreas.

Synonyms: Trypsin-3,3.4.21.4,Brain trypsinogen,Mesotrypsinogen,Serine protease 3,Serine protease 4,Trypsin III,Trypsin IV,PRSS3,PRSS4, TRY3, TRY4,

Full Gene Name: Trypsin-3

Cellular Localisation: Secreted.

UniProt: [P35030](#)

Application Details

Plate: Pre-coated

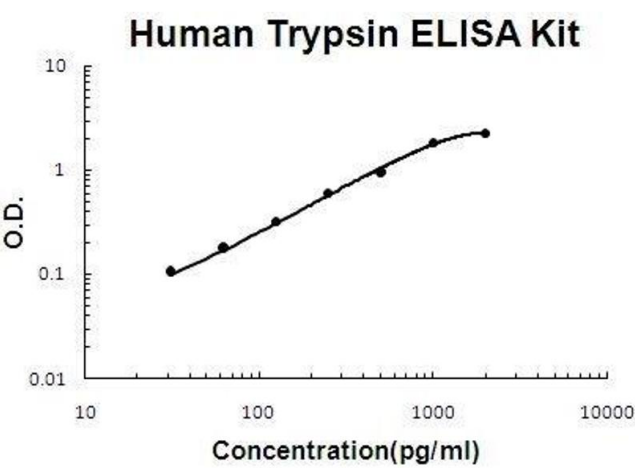
Restrictions: For Research Use only

Handling

Storage: 4 °C,-20 °C

Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles(Shipped with wet ice.)

Expiry Date: 12 months



ELISA

Image 1. Human Trypsin PicoKine ELISA Kit standard curve