

Datasheet for ABIN7197546  
**PRSS3 Protein (His tag)**



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## Overview

Quantity:	50 µg
Target:	PRSS3
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This PRSS3 protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Human Trypsin-3/PRSS3 Protein (His Tag)(Active)
Sequence:	Met 1-Ser 247
Characteristics:	A DNA sequence encoding the human PRSS3 isoform c (P35030-3) (Met 1-Ser 247) was expressed, with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH <sub>2</sub> (AnaSpec, Catalog#27114). The specific activity is >4,000 pmoles/min/µg. (Activation description: The proenzyme needs to be activated by enteropeptidase for an activated form)

## Target Details

Target:	PRSS3
Alternative Name:	Trypsin-3/PRSS3 ( <a href="#">PRSS3 Products</a> )
Background:	<p>Background: Trypsin-3, also known as Trypsin III, brain trypsinogen, Serine protease 3 and PRSS3, is a secreted protein which belongs to the peptidase S1 family. Trypsin-3 / PRSS3 is expressed in pancreas and brain. It contains one peptidase S1 domain. Trypsin-3 / PRSS3 can degrade intrapancreatic trypsin inhibitors that protect against CP. Genetic variants that cause higher mesotrypsin activity might increase the risk for chronic pancreatitis (CP). A sustained imbalance of pancreatic proteases and their inhibitors seems to be important for the development of CP. The trypsin inhibitor-degrading activity qualified PRSS3 as a candidate for a novel CP susceptibility gene. Trypsin-3 / PRSS3 has been implicated as a putative tumor suppressor gene due to its loss of expression, which is correlated with promoter hypermethylation, in esophageal squamous cell carcinoma and gastric adenocarcinoma.</p> <p>Synonym: MTG;PRSS4;RP11-176F3.3;T9;TRY3;TRY4</p>
Molecular Weight:	26.6 kDa

## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 50 mM MES, 0.6M NaCl, pH 5.0
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at &lt; -20°C for 3 months.</p>