Datasheet for ABIN7596252

PRSS3 Protein (AA 16-247) (His tag)

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Overview

Quantity:	500 µg
Target:	PRSS3
Protein Characteristics:	AA 16-247
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This PRSS3 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Enzyme Activity Assay (EAA)

Product Details

Sequence:	VPFDDDDKIV GGYTCEENSL PYQVSLNSGS HFCGGSLISE QWVVSAAHCY KTRIQVRLGE HNIKVLEGNE QFINAAKIIR HPKYNRDTLD NDIMLIKLSS PAVINARVST ISLPTAPPAA GTECLISGWG NTLSFGADYP DELKCLDAPV LTQAECKASY PGKITNSMFC VGFLEGGKDS CQRDSGGPVV CNGQLQGVVS WGHGCAWKNR PGVYTKVYNY VDWIKDTIAA NS
Purity:	> 95% by SDS-PAGE
Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)
Biological Activity Comment:	Specific activity is > 10,000pmol/min/ug, and is defined as the amount of enzyme that cleaves 1pmol of Mca-RPKPVE-Nval-WRK(Dnp)-NH2 per minute at pH 8.0 at 37°C.

Target Details

Target:	PRSS3
Alternative Name:	Trypsin 3/PRSS3 (PRSS3 Products)
Background:	PRSS3, also known as trypsin-3, is a member of the trypsin family of serine proteases. It is specialized for the degradation of trypsin inhibitors and may be involved in defensin processing, including DEFA5. This protein is expressed in the brain and pancreas and is resistant to common trypsin inhibitors. It is active on peptide linkages involving the carboxyl group of lysine or arginine. Compared to PRSS1 and 2, one intriguing feature of PRSS3 is its resistance to polypeptide trypsin inhibitors, such as the Kunitz-type soybean trypsin inhibitor or the Kazal-type pancreatic secretory trypsin inhibitor. It has been proposed to be degradation of trypsin inhibitors, which facilitates the digestion of those foods rich in these proteins. Recombinant human Trypsin 3/PRSS3, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Molecular Weight:	26kDa (238aa)
NCBI Accession:	NP_002762

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.