

Recombinant Human PRSS3 Protein, His-tagged

Cat. No. PRSS3-375H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PRSS3, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
Description	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.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	25.3kDa (233aa)28-40KDa (SDS-PAGE under reducing conditions.)
AA Sequence	ADPIVGGYTC EENSLPYQVS LNSGSHFCGG SLISEQWVVS AAHCYKTRIQ VRLGEHNIKV LEGNEQFINA AKIIRHPKYN RDTLDNDIML IKLSSPAVIN ARVSTISLPT APPAAGTECL ISGWGNTLSF GADYPDELKC LDAPVLTQAE CKASYPGKIT NSMFCVGFLE GGDSCQRDS GGPVVCNGQL QGVVSWGHGC AWKNRPGVYT KVYNYVDWIK DTIAANSHHH HHH

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Endotoxin	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Purity	>95% by SDS - PAGE
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name	PRSS3 protease, serine, 3 [Homo sapiens]
Official Symbol	PRSS3
Synonyms	PRSS3; protease, serine, 3; protease, serine, 3 (mesotrypsin) , protease, serine, 4 (trypsin 4, brain) , PRSS4; trypsin-3; mesotrypsin; TRY3; TRY4; trypsin IV; trypsin III; trypsinogen 4; trypsinogen 5; trypsinogen IV; mesotrypsinogen; brain trypsinogen; pancreatic trypsinogen III; protease, serine, 4 (trypsin 4, brain); T9; MTG; PRSS4;
Gene ID	5646
mRNA Refseq	NM_001197097
Protein Refseq	NP_001184026
MIM	613578
UniProt ID	P35030

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Chromosome Location	9p13
Pathway	Alpha-defensins, organism-specific biosystem; Defensins, organism-specific biosystem; Immune System, organism-specific biosystem; Influenza A, organism-specific biosystem; Influenza A, conserved biosystem; Innate Immune System, organism-specific biosystem; Neuroactive ligand-receptor interaction, organism-specific biosystem;
Function	calcium ion binding; peptidase activity; protein binding; serine-type endopeptidase activity; serine-type peptidase activity;

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