

Product datasheet for TP724592M

OriGene Technologies, Inc.

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PRSS3 (16-247, His-Tag) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant human Trypsin 3/PRSS3 protein

Species: Human Expression Host: HEK293

Expression cDNA Clone VPFDDDDKIV GGYTCEENSL PYQVSLNSGS HFCGGSLISE QWVVSAAHCY KTRIQVRLGE

or AA Sequence: HNIKVLEGNE QFINAAKIIR HPKYNRDTLD NDIMLIKLSS PAVINARVST ISLPTAPPAA GTECLISGWG

NTLSFGADYP DELKCLDAPV LTQAECKASY PGKITNSMFC VGFLEGGKDS CQRDSGGPVV

CNGQLQGVVS WGHGCAWKNR PGVYTKVYNY VDWIKDTIAA NS

Tag: His-Tag

Predicted MW: 26kDa (238aa)

Concentration: 1mg/ml (determined by Absorbance at 280nm)

Purity: > 95% by SDS-PAGE

Buffer: Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Bioactivity: 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.

Endotoxin: < 1 EU per 1ug of protein (determined by LAL method)

Applications: SDS-PAGE, Enzyme Activity

Storage: Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -

80C. Avoid repeated freezing and thawing cycles.

RefSeq: NP 002762.2







Summary:

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.