

## Product datasheet for **TP724592L**

### 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 or AA Sequence:	VPFDDDDKIV GGYTCEENSL PYQVSLNSGS HFCGGSLISE QWVSAAHCY KTRIQVRLGE HNIKVLEGNE QFINAAKIIR HPKYNRDTLD NDIMLIKLS PAVINARVST ISLPTAPPAA GTECLISGWG NTLISFGADYP DELKCLDAPV LTQAECKASY PGKITNSMFC VGFLEGGKDS CQRDSSGGPVV 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)-NH <sub>2</sub> 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:	<a href="#">NP_002762.2</a>



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**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.