

Product information

Trypsin-3, 81-304aa

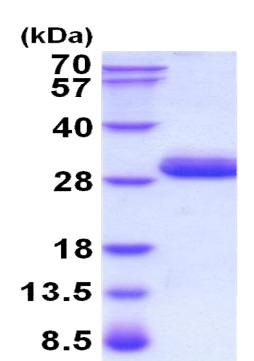
Human, His-tagged, Recombinant, Insect cell

Cat. No. IBATGP3220

NCBI Accession No.: NP_031369

Synonyms: PRSS3, MTG, PRSS4, T9, TRY3, TRY4

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. Recombinant human PRSS3, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

<p>Form: Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.</p> <p>Molecular Weight: 25.3kDa (233aa) 28-40kDa (SDS-PAGE under reducing conditions.)</p> <p>Predicted N terminal: Ala</p> <p>Purity: > 95% by SDS – PAGE.</p> <p>Concentration: 0.5mg/ml (determined by Absorbance at 280nm)</p> <p>Endotoxin Level: < 1.0 EU per 1µg of protein (determined by LAL method)</p>	 <p>(kDa) 70 57 40 28 18 13.5 8.5</p> <p>15% SDS-PAGE (3ug)</p>
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Sequences of amino acids:

ADPIVGGYTC EENSLPYQVS LNSGSHFCGG SLISEQWVVS AAHCYKTRIQ VRLGEHN IKV LEGNEQFINA AKIIRHPKYN RDTLDNDIML IKLSSPAVIN ARVSTISLPT APPAAGTECL ISGWNTLSF GADYPDELKC LDAPVLTQAE CKASYPGKIT NSMFCVGFLE GGDKSCQRDS GGPVVCNGQL QGVVSWGHC AWKNRPGVYT KVVNYVDWIK DTIAANSHHH HHH

General references:

- Jiang G., *et al.* (2010) *Gut* 59(11):1535-1544.
 Rosendahl J., *et al.* (2010) *Pancreatology* 10(2-3):243-249.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.