Recombinant human mesotrypsin/PRSS3 protein

Catalog Number: ATGP3220

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
81-304aa

UniProt No.
P35030

NCBI Accession No.
NP_031369

Alternative Names
Brain trypsinogen, Mesotrypsin, Mesotrypsinogen, Serine protease 3, Serine protease 4, Trypsin-3, Trypsin III, Trypsin IV, PRSS4, TRY3, TRY4

PRODUCT SPECIFICATION

Molecular Weight
25.3 kDa (233aa)

Concentration
0.5mg/ml (determined by absorbance at 280nm)

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

Purity
> 95% by SDS-PAGE

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

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
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.

BACKGROUND

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

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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.

Amino acid Sequence

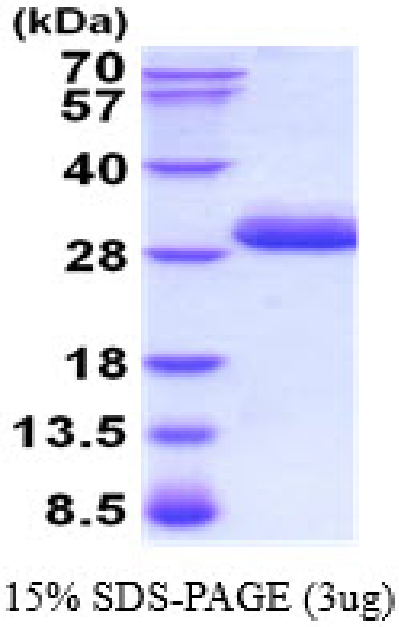
ADPIVGGYTC EENSLPYQVS LNSGSHFCGG SLISEQWVVS AAHCYKTRIQ VRLGEHNIKV LEGNEQFINA AKIIRHPKYN RDTLDNDIML IKLSSPAVIN ARVSTISLPT APPAAGTECL ISGWGNTLSF GADYPDELKC LDAPVLTQAE CKASYPGKIT NSMFCVGFLE GGKDSCQRDS GGPVVCNGQL QGVVSWGHGC AWKNRPGVYT KVYNYVDWIK DTIAANSHHH HHH

General References

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

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.