

# Recombinant human Tryptase beta-1 protein

Catalog Number: ATGP1729

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

31-275aa

### UniProt No.

Q15661

### NCBI Accession No.

NP\_003285.2

### Alternative Names

Tryptase alpha/beta-1, TPS1, TPS2, TPSB1

## PRODUCT SPECIFICATION

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### Molecular Weight

30.1 kDa (270aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 0.4M urea

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### 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

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### Description

TPSAB1, also known as tryptase alpha/beta-1, is a tryptase that is the major neutral protease present in mast cells and is secreted upon the coupled activation-degranulation response of this cell type. It is enzymatically active only as a heparin-stabilized tetramer, and it is resistant to all known endogenous proteinase inhibitor. This protein has been implicated as mediators in the pathogenesis of asthma and other allergic and inflammatory disorders. Recombinant human TPSAB1 protein, fused to His-tag at N-terminus, was expressed in E. coli.

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## Amino acid Sequence

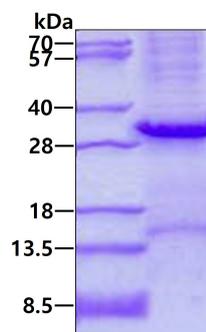
<MGSSHHHHHH SSGLVPRGSH MGSHM>IVGGQ EAPRSKWPWQ VSLRVHGPLYW MHFCGGSLIH PQWVLTAHC  
VGPDVKDLAA LRVQLREQHL YYQDQLLPVS RIIVHPQFYT AQIGADIALI ELEEPVNVSS HVHTVTLPPA SETFPPGMPC  
WWTGWGDVDN DERLPPPFPL KQVKVPIEM HICDAKYHLG AYTGDDVRIV RDDMLCAGNT RRDSCQGDSG  
GPLVCKVNGT WLQAGVSWG EGCAQPNRPG IYTRVTTYLD WIHHYVPPKP

## General References

Tanaka T. et al. (1983) J Biol Chem. 258(22):13552-7.  
Marquardt u. et al. (2002) J Mol Biol. 321(3):491-502.

## DATA

### SDS-PAGE



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