Recombinant human Tryptase beta-1 protein

Catalog Number: ATGP1729

PRODUCT INFORMATION

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

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

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 an 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.

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

Recombinant human Tryptase beta-1 protein

Catalog Number: ATGP1729

Amino acid Sequence

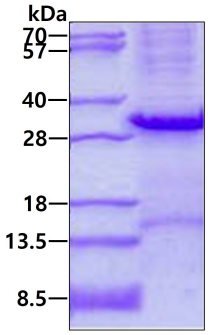
<MGSSHHHHHH SSGLVPRGSH MGSHM>IVGGQ EAPRSKWPWQ VSLRVHGPYW MHFCGGSLIH PQWVLTAAHC VGPDVKDLAA LRVQLREQHL YYQDQLLPVS RIIVHPQFYT AQIGADIALL ELEEPVNVSS HVHTVTLPPA SETFPPGMPC WVTGWGDVDN DERLPPPFPL KQVKVPIMEN HICDAKYHLG AYTGDDVRIV RDDMLCAGNT RRDSCQGDSG GPLVCKVNGT WLQAGVVSWG EGCAQPNRPG IYTRVTYYLD WIHHYVPKKP

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.