

Recombinant human Tryptase beta-2 protein

Catalog Number: ATGP1729

PRODUCT INFORMATION

Expression system

E.coli

Domain

31-275aa

UniProt No.

P20231

NCBI Accession No.

NP_003285

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 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

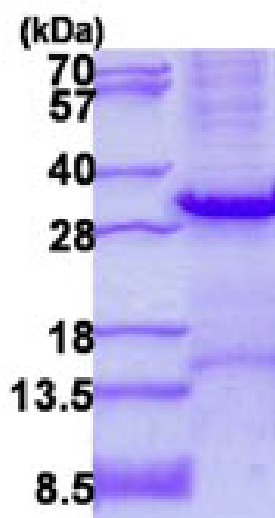
MGSSHHHHHH SSGLVPRGSH MGSHMIVGGQ EAPRSKWPWQ VSLRVHGPYW MHFCGGSLIH PQWVLTAHC
VGPDVKDLAA LRVQLREQHL YYQDQLLPVS RIIVHPQFYT AQIGADIALL ELEEPVNVSS HVHTVTLPPA SETFPPGMPC
WVTGWGDVDN DERLPPFPPL KQVKPIMEN HICDAKYHLG AYTGDDVRIV RDDMLCAGNT RRDSCQGDSG
GPLVCKVNGT WLQAGVSWG EGCAQPNRPG IYTRVTTYLD WIHHYVPPKP

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.

15% SDS-PAGE (3ug)