Recombinant Human Tryptase Alpha/Beta 1, His-tagged

Cat. No. TPSAB1-7161H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TPSAB1 protein, fused to His-tag at N-terminus, was expressed in E. coli. MW: 30.1 kDa.
Species	Human
Source	E.coli
ProteinLength	31-275aa
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.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.4M Urea.
Molecular Mass	30.1 kDa(270aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMIVGGQ EAPRSKWPWQ VSLRVHGPYW MHFCGGSLIH PQWVLTAAHC VGPDVKDLAA LRVQLREQHL YYQDQLLPVS RIIVHPQFYT AQIGADIALL ELEEPVNVSS HVHTVTLPPA SETFPPGMPC WVTGWGDVDN DERLPPPFPL KQVKVPIMEN HICDAKYHLG AYTGDDVRIV RDDMLCAGNT RRDSCQGDSG GPLVCKVNGT WLQAGVVSWG EGCAQPNRPG

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	IYTRVTYYLD WIHHYVPKKP
Purity	>85% by SDS - PAGE
Applications	SDS-PAGE
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.
Concentration	1.0 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	TPSAB1 tryptase alpha/beta 1 [Homo sapiens]
Official Symbol	TPSAB1
Synonyms	TPSAB1; tryptase alpha/beta 1; TPS1, TPS2, TPSB1, tryptase beta 1; tryptase alpha/beta-1; tryptase alpha II; tryptase beta I; tryptase I; tryptase II; tryptase III; tryptase-1; tryptase-I; tryptase-III; tryptase beta 1; tryptase beta-1; tryptase alpha-1; mast cell beta I tryptase; mast cell alpha II tryptase; TPS1; TPS2; TPSB1; MGC104064;
Gene ID	7177
mRNA Refseq	NM_003294
Protein Refseq	NP_003285
MIM	191080

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

UniProt ID	Q15661
Chromosome Location	16p13.3
Pathway	Activation of Matrix Metalloproteinases, organism-specific biosystem; Degradation of the extracellular matrix, organism-specific biosystem; Extracellular matrix organization, organism-specific biosystem;
Function	peptidase activity; protein binding; serine-type endopeptidase activity; serine-type peptidase activity;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA