

Active Recombinant Full Length Human tryptase alpha/beta 1 Protein, His tagged

Cat. No. TPSAB1-13HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Active Recombinant Full Length Human tryptase alpha/beta 1 Protein (Met1-Pro275) with a C-terminal 10-His tag was expressed in Mouse myeloma cell line.
Species	Human
Source	Mouse myeloma cell
ProteinLength	1-275 aa
Description	Tryptase is the major neutral protease present in mast cells and is secreted upon the coupled activation-degranulation response of this cell type. May play a role in innate immunity. Isoform 2 cleaves large substrates, such as fibronectin, more efficiently than isoform 1, but seems less efficient toward small substrates.
Form	Pro form
Bio-activity	Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH ₂ . The specific activity is > 650 pmol/min/μg, as measured under the described conditions.
Molecular Mass	29 kDa
N-terminal Sequence Analysis	Val29

 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

Endotoxin	< 1 EU/μg by LAL
Purity	> 95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -70 centigrade as supplied. 3 months, -70 centigrade under sterile conditions after opening.
Storage Buffer	Supplied as a 0.2 μm filtered solution in Tris and NaCl.
Shipping	The product is shipped with dry ice or equivalent.
Reference	<ol style="list-style-type: none"> 1. Caughey, G. H. 2004, in Handbook of Proteolytic Enzymes, Barrett, A.J. et al. eds. pp. 1535. 2. Sommerhoff, C.P. et al. (1999) Proc. Natl. Acad. Sci. USA. 96:10984. 3. Hallgren, J. and G. Pejler (2006) FEBS J. 273:1871.
GENE INFORMATION	
Gene Name	TPSAB1 tryptase alpha/beta 1 [Homo sapiens (human)]
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

 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



mRNA Refseq	NM_003294
Protein Refseq	NP_003285
MIM	191080
UniProt ID	Q15661

 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