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)-NH2. 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	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

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mRNA Refseq	NM_003294
Protein Refseq	NP_003285
MIM	191080
UniProt ID	Q15661

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