

Tryptase alpha/beta-1/TPSAB1 Recombinant Protein | TPSAB1 recombinant protein

Recombinant Human Tryptase alpha/beta-1/TPSAB1 Protein (His Tag)

CATALOG #
AAA174035

HOST
Human Cells

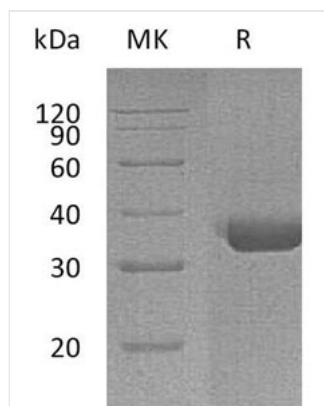
PRODUCT SYNONYMS

Tryptase alpha/beta-1/TPSAB1; Recombinant Human Tryptase alpha/beta-1/TPSAB1 Protein (His Tag); tryptase alpha/beta 1; Tryptase 1; TPS1; TPS2; TPSAB1; TPSB1; TPSAB1 recombinant protein

PRODUCT SPECIFICATIONS

Host	Human Cells
Purity/Purification	> 95% as determined by reducing SDS-PAGE.
Form/Format	Lyophilized from a 0.2 um filtered solution of 1M NaCl, 0.05mM Heparin, 50mM sodium acetate, 0.01% sodium azide, pH 5.0
Sequence Positions	Ile31-Pro275
Sequence Length	275
Species	Human
Endotoxin	<1.0 EU per ug as determined by LAL method.
Tag	C-6His
Reconstitution	We recommend that the vial be centrifuged to opening to bring the contents to the bottom. Do not mix by vortex. It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 mg/mL. Concentration is measured by UV-Vis.
Preparation and Storage	Lyophilized protein should be stored at < -20°C. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for TPSAB1 recombinant protein	Tryptases are serine proteases with trypsin-like specificity. Together with chymases and Cathepsin G, tryptases are important players in mast cell mediation of inflammatory and allergic responses. Tryptase alpha/beta-1(TPSAB1), also known as mast cell protease 7 (MCPT7), it exhibits anticoagulant activity due to its ability to degrade fibrinogen in the presence of a diverse array of protease inhibitors in plasma. The two Isoform 1 and isoform 2 are expressed in lung, stomach, spleen, heart and skin; in these tissues, isoform 1 is predominant. Isoform 2 is expressed in aorta, spleen, and breast tumor, with highest levels in the endothelial cells of some blood vessels surrounding the aorta, as well as those surrounding the tumor and low levels, if any, in mast cells. Isoform 2 cleaves large substrates, such as fibronectin, more efficiently than isoform 1, but seems less efficient toward small substrates. It may play a role in innate immunity.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	13775595
NCBI GeneID	7177
NCBI Accession #	NP_003285.2
NCBI GenBank Nucleotide #	NM_003294.3
UniProt Accession #	Q15661; P15157; Q15663; Q6B052; Q9H2Y4; Q9H2Y5; Q9UQ11; D2E6R9; D2E6S1
Molecular Weight	Molecular Mass: 28.8 kDa Actual Protein Molecular Mass: 32-38 kDa
NCBI Official Full Name	tryptase alpha/beta-1
NCBI Official Synonym Full Names	tryptase alpha/beta 1
NCBI Official Symbol	TPSAB1
NCBI Official Synonym Symbols	TPS1; TPS2; TPSB1; TPSB2; Tryptase-2
NCBI Protein Information	tryptase alpha/beta-1
UniProt Protein Name	Tryptase alpha/beta-1
UniProt Gene Name	TPSAB1
UniProt Synonym Gene Names	TPS1; TPS2; TPSB1; Tryptase-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.