

Active Native Human TPSAB1 Protein

Cat. No. TPSAB1-02H Lot. No. (See product label)

SPECIFICATION

Product Overview	Native tryptase from human lung. Prepared from tissue that has been shown by certified tests to be negative for HBsAg and for antibodies to HIV and HCV.
Species	Human
Source	Lung
Description	Tryptases comprise a family of trypsin-like serine proteases, the peptidase family S1. Tryptases are enzymatically active only as heparin-stabilized tetramers, and they are resistant to all known endogenous proteinase inhibitors. Several tryptase genes are clustered on chromosome 16p13.3. These genes are characterized by several distinct features. They have a highly conserved 3' UTR and contain tandem repeat sequences at the 5' flank and 3' UTR which are thought to play a role in regulation of the mRNA stability. These genes have an intron immediately upstream of the initiator Met codon, which separates the site of transcription initiation from protein coding sequence. This feature is characteristic of tryptases but is unusual in other genes. The alleles of this gene exhibit an unusual amount of sequence variation, such that the alleles were once thought to represent two separate genes, alpha and beta 1. Beta tryptases appear to be the main isoenzymes expressed in mast cells; whereas in basophils, alpha tryptases predominate. Tryptases have been implicated as mediators in the pathogenesis of asthma and other allergic and inflammatory disorders.
Form	Liquid

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Bio-activity	≥50 U/mg protein
Storage	At -20 centigrade
Storage Buffer	In 1 M NaCl, 50 mM NaOAc, 50 μM heparin, 0.05% NaN ₃ .
Shipping	Dry Ice Only

GENE INFORMATION

Gene Name	TPSAB1 tryptase alpha/beta 1 [Homo sapiens (human)]
Official Symbol	TPSAB1
Synonyms	TPSAB1; tryptase alpha/beta 1; Tryptase; tryptase alpha/beta-1; TPS1; TPS2; TPSB1; TPSB2; Tryptase-2; Tryptase II; Tryptase beta-2; epididymis secretory sperm binding protein; mast cell alpha II tryptase; mast cell beta I tryptase; mast cell tryptase; tryptase alpha II; tryptase alpha-1; tryptase beta I; tryptase beta-1; tryptase-1; tryptase-I; tryptase-III; EC 3.4.21.59
Gene ID	7177
mRNA Refseq	NM_003294
Protein Refseq	NP_003285
MIM	191080
UniProt ID	P20231

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