

Active Recombinant Human TPSB2 Protein (Met1-Pro275), C-10xHis-tagged

Cat. No. TPSB2-18H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Human TPSB2 Protein (Met1-Pro275) with a C-terminal 10xHis tag was expressed in Mouse myeloma cell line.

Species

Human

Source

NS0

ProteinLength

Met1-Pro275

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, beta II and beta III. 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

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	disorders.
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
Molecular Mass	Predicted Molecular Mass: 29 kDa SDS-PAGE: 38 kDa, reducing conditions
N-terminal Sequence Analysis	Val29
Endotoxin	< 1.0 EU/μg of the protein by the LAL method.
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.

GENE INFORMATION

Gene Name	TPSB2 tryptase beta 2 [Homo sapiens (human)]
Official Symbol	TPSB2

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Synonyms	TPSB2; tryptase beta 2; TPS2; tryptaseB; tryptaseC; tryptase beta-2; mast cell tryptase beta II; mast cell tryptase beta III; testicular tissue protein Li 163; EC 3.4.21.59
Gene ID	64499
mRNA Refseq	NM_024164
Protein Refseq	NP_077078
MIM	191081
UniProt ID	P20231

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