

Recombinant Human TPSB2 Protein, His-tagged

Cat. No. TPSB2-418H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TPSB2 fused with His tag at C-terminal was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 disorders.
Form	Supplied as a 0.2 μM filtered solution of 20mM TrisHCl, 150mM NaCl, pH 8.0

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Molecular Mass	29.64kD
AA Sequence	APAPGQALQRVGIVGGQEAPRSKWPWQVSLRVHGPYWMHFCGGSLIHPQWVLTA AHCVGPDVKDLAALRVQLREQHLYYQDQLLPVSRIIVHPQFYTAQIGADIALLELEEP VKVSSHVHTVTLPPASETFFPGMPCWVTGWGDVDNDERLPPPFPLKQVKVPIMEN HICDAKYHLGAYTGDDVRIVRDDMLCAGNTRRDSCQGDSGGPLVCKVNGTWLQAG VVSWGEGCAQPNRPGIYTRVTYYLDWIHHYVPKKPVDHHHHHH
Endotoxin	Endotoxin level is <0.1 ng/g of protein (<1EU/g).
Purity	>95% as determined by SDS-PAGE and Coomassie blue staining
GENE INFORMATION	
Gene Name	TPSB2 tryptase beta 2 (gene/pseudogene) [Homo sapiens]
Official Symbol	TPSB2
Synonyms	TPSB2; tryptase beta 2 (gene/pseudogene); tryptase beta 2; tryptase beta-2; tryptase beta II; tryptase beta III; tryptase-2; tryptase II; tryptase III; mast cell tryptase beta II; mast cell tryptase beta III; TPS2; tryptaseB; tryptaseC;
Gene ID	64499
mRNA Refseq	NM_024164
Protein Refseq	NP_077078
MIM	191081
UniProt ID	P20231

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