

Recombinant Mouse TPSB2 protein, His-tagged

Cat. No. TPSB2-419M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Tryptase beta-2 is produced by our Mammalian expression system and the target gene encoding Ala23-Ser276 is expressed with a 6His tag at the C-terminus.
Species	Mouse
Source	HEK293
ProteinLength	Ala23-Ser276
Description	Tryptase beta-2(Tpsb2), also known as Mast cell protease 6(mMCP-6), belongs to the peptidase S1 family and Tryptase subfamily. Tryptase is the major neutral protease present in mast cells and is secreted upon the coupled activation-degranulation response of this cell type. It plays a role in innate immunity. Tpsb2 can be detected primarily in skin during embryogenesis. Tpsb2 can not be detected at early embryonic stages but is abundantly expressed in later stages with a peak at E17.5-E18.5. Tryptase is a homotetramer. The active tetramer is converted to inactive monomers at neutral and acidic pH in the absence of heparin. Low concentrations of inactive monomers become active monomers at pH 6.0 in the presence of heparin. When the concentration of active monomers is higher, they convert to active monomers and then to active tetramers. These monomers are active and functionally distinct from the tetrameric enzyme. In contrast to the hidden active sites in the tetrameric form, the active site of the monomeric form is accessible for macromolecular proteins and inhibitors eg: fibrinogen which is a substrate for the monomeric but not for the

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tetrameric form. The monomeric form forms a complex with SERPINB6.

Form	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl,150mM NaCl,pH 7.5.
Molecular Mass	29.3kDa
Endotoxin	Less than 0.1 ng/ug (1 EU/ug) as determined by LAL test.
Purity	Greater than 95% as determined by reducing SDS-PAGE.
Storage	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Concentration	Please contact us for detailed information.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.

GENE INFORMATION

Gene Name	Tpsb2 tryptase beta 2[Mus musculus (house mouse)]
Official Symbol	TPSB2
Synonyms	Tryptase beta-2; Tryptase-2; Mast cell protease 6; mMCP-6
Gene ID	17229
mRNA Refseq	NM_010781.3
Protein Refseq	NP_034911

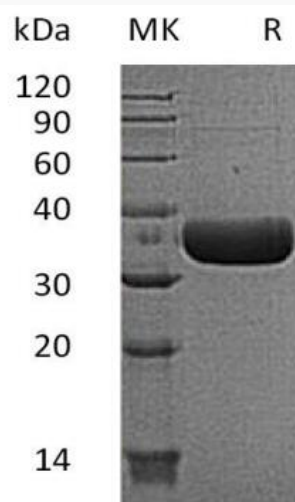
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UniProt ID **P21845**

SDS-PAGE of
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