

Product datasheet for **TP727563**

Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Tryptase alpha/beta-1/TPSAB1 (C-6His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Ile31-Pro275
Tag:	C-His
Buffer:	Lyophilized from a 0.2 um filtered solution of 1MNaCl,0.05mMHeparin,50mMsodium acetate ,containing 0.01% sodium azide, PH5.0.
Note:	Recombinant Human Tryptase alpha/beta-1 is produced by our Mammalian expression system and the target gene encoding Ile31-Pro275 is expressed with a 6His tag at the C-terminus.
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. 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.
Stability:	12 months from date of despatch
Synonyms:	tryptase alpha/beta 1;Tryptase 1;TPS1; TPS2; TPSAB1; TPSB1
Summary:	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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