

32-8840: Recombinant Human Tryptase alpha/beta-1/TPSAB1 (C-6His)

Gene : TPSAB1

Gene ID : 7177

Uniprot ID : Q15661

Description

Source: Human Cells.

MW :28.8kD.

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. 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.

Product Info

Amount : 10 µg / 50 µg

Content : Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.

Storage condition : 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.

Amino Acid : IVGGQEAPRSKWPWQVSLRVRDRYWMHFCGGS LIHPQWVLTAHCLGPDVKDLATLRVQLREQHLYYQDQL
LPVSRIIVHPQFYIIQTGADIALLEEPVNISSRVHTVMLPPASETFPPGMPWCWVTGWGDDVDNDEPLPPFPLKQ
VKVPIMENHICDAKYHLGAYTGDDVRIIRDDMLCAGNTRRDSCQGDSSGGLVCKVNGTWLQAGVVSWEDEGC
AQPNRPGIYTRVTYYLDWIIHHYVPKKPVDHHHHHH

Application Note

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.

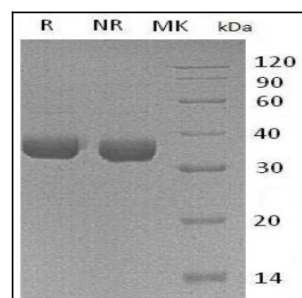


Figure 1: Coomassie Gel. We loaded TPSAB1 in reducing and non-reducing condition on SDS-Page.