

Recombinant Human TPSG1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TPSG1-6642H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TPSG1 MS Standard C13 and N15-labeled recombinant protein (NP_036599) with a C-terminal MYC/DDK tag, 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. There is uncertainty regarding the number of genes in this cluster. Currently four functional genes - alpha I, beta I, beta II and gamma I - have been identified. And beta I has an allelic variant named alpha II, beta II has an allelic variant beta III, also gamma I has an allelic variant gamma II. Beta tryptases appear to be the main isoenzymes expressed in mast cells; whereas in basophils, alpha-tryptases predominant. This gene differs from other members of the tryptase gene family in that it has C-terminal hydrophobic domain, which may serve as a membrane anchor. Tryptases have been implicated as mediators in the pathogenesis of asthma and other allergic and inflammatory disorders.
Molecular Mass	33.76 kDa
AA Sequence	MALGACGLLLLLLAVPGVSLRTLQPGCGRPQVSDAGGRIVGGHAAPAGAWPWQASL

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

RLRRMHVCGGSLLSPQWVLTAHCFSGSLNSSDYQVHLGELEITLSPHFSTVRQIIL
HSSPSGQPGTSGDIALVELSVPTLSSRILPVCLPEASDDFCPGIRCSVTGWGYTRE
GEPLPPPYSLREVKVSVDTECRRDYPGPGGSILQPDMLCARGPGDACQDDSGG
PLVCQVNGAWVQAGIVSWGEGCGRPNRPGVYTRVPAYVNWIRRHITASGGSESGY
PRLPLLAFGLPGLFLLLVSCLLAKCLLHPSADGTPFPAPDTRTRPLEQKLISEEDLA
ANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [TPSG1](#) *tryptase gamma 1* [*Homo sapiens* (human)]

Official Symbol [TPSG1](#)

Synonyms TPSG1; tryptase gamma 1; tryptase gamma; PRSS31; TMT; tryptase gamma I; tryptase gamma II; gamma I; gamma II; lung tryptase; skin tryptase; mast cell tryptase; pituitary tryptase; serine protease 31; mast cell protease II; transmembrane tryptase; trpA;

Gene ID [25823](#)

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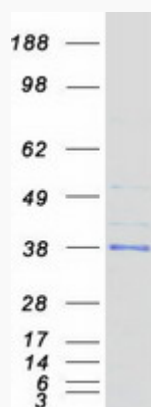
mRNA Refseq [NM_012467](#)

Protein Refseq [NP_036599](#)

MIM [609341](#)

UniProt ID [Q9NRR2](#)

SDS-PAGE



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