

## Product datasheet for **TP322359M**

### TPSG1 (NM\_012467) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human tryptase gamma 1 (TPSG1), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA	>RC222359 representing NM_012467
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MALGACGLLLLLAVPGVSLRTLQPGCGRPQVSDAGGRIVGGHAAPAGAWPWQASLRLRRMHVCGGSLLSP  
QWVLTAAHCFSGSLNSSDYQVHLGELEITLSPHFSTVRQIILHSSPSGQPGTSGDIALVELSVPVTLSSR  
ILPVCLPEASDDFCPGIRCSVTGWGYTREGEPLPPYSLREVKVSVDTECRRDYPGPGGSILQPDMLC  
ARGPGDACQDDSGGPLVCQVNGAWVQAGIVSWGEGCGRPNRPVYTRVPAYVNWIRRHITASGGSESGYP  
RLPLLAGFFLPGLFLLLVSCLLAKCLLHPSADGTPFPAPD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	32 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_036599</a>
Locus ID:	25823



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UniProt ID: [Q9NRR2](#)

RefSeq Size: 1124

Cytogenetics: 16p13.3

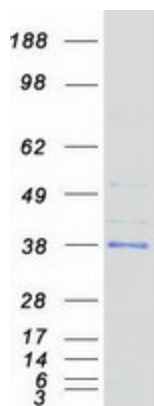
RefSeq ORF: 963

Synonyms: PRSS31; TMT; trpA

**Summary:** Trypsases comprise a family of trypsin-like serine proteases, the peptidase family S1. Trypsases are enzymatically active only as heparin-stabilized tetramers, and they are resistant to all known endogenous proteinase inhibitors. Several trypsin 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 trypsinases appear to be the main isoenzymes expressed in mast cells; whereas in basophils, alpha-trypsinases predominant. This gene differs from other members of the trypsinase gene family in that it has C-terminal hydrophobic domain, which may serve as a membrane anchor. Trypsases have been implicated as mediators in the pathogenesis of asthma and other allergic and inflammatory disorders. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome, Transmembrane

### Product images:



Coomassie blue staining of purified TPSG1 protein (Cat# [TP322359]). The protein was produced from HEK293T cells transfected with TPSG1 cDNA clone (Cat# [RC222359]) using MegaTran 2.0 (Cat# [TT210002]).