

Product datasheet for PH322359

TPSG1 (NM_012467) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	TPSG1 MS Standard C13 and N15-labeled recombinant protein (NP_036599)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC222359
Predicted MW:	33.76 kDa
Protein Sequence:	>RC222359 representing NM_012467 Red=Cloning site Green=Tags(s) MALGACGLLLLLLAVPGVSLRTLQPGCGRPQVSDAGGRIVGGHAAPAGAWPWQASLRRLRRMHVCGGSLLSP QWVLTAAHCFSGSLNSSDYQVHLGELEITLSPHFSTVRQIILHSSPSGQPGTSGDIALVELSVPVTLSSR ILPVCLPEASDDFCPGIRCSVTGWYTREGEPLPPYSLREVKVSVVDTETCRRDYPGPGGSILQPDMC ARGPGDACQDDSGGPLVCQVNGAWVQAGIVSWGEGCGRPNRPGVYTRVPAYVNWIRRHITASGGSESGYP RLPLLAGFFLPGLFLLLVSCLLAKCLLHPSADGTPFPAPD TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_036599
RefSeq Size:	1124
RefSeq ORF:	963
Synonyms:	PRSS31; TMT; trpA
Locus ID:	25823



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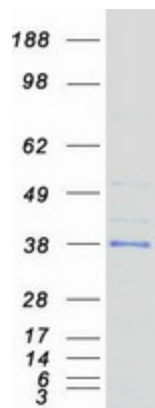
UniProt ID: [Q9NRR2](#)

Cytogenetics: 16p13.3

Summary: 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. [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]).