

Active Recombinant Human Trypsase Gamma 1, His-tagged

Cat. No. TPSG1-510H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TPSG1 protein was expressed in Murine myeloma cell line with a C-terminal 10-Histag. Arg20-Arg281.
Species	Human
Source	Mammalian Cells
Protein Length	20-281 a.a.
Description	Human TPSG1 is synthesized as a 321 amino acid preproenzyme with a C-terminal transmembrane anchor. The proenzyme can be cleaved by trypsin to form the active enzyme. As mediators of inflammatory and allergic response, mast cells are found throughout the body concentrated near blood vessels in connective tissue and the mucous membranes of the respiratory and gastrointestinal tract.
Form	Supplied as a 0.2 µm filtered solution in Tris, CaCl ₂ , NaCl, Brij-35 and Glycerol.
N-terminal Sequence	Arg20
Molecular Weight	29 kDa
Activity	Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK (Dnp)-NH ₂ . The specific activity is > 70 pmoles/min/µg, as measured under the described conditions.

 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

Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	36 kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -70°C as supplied. 3 months, -70°C under sterile conditions after opening.

GENE INFORMATION

Gene Name	TPSG1 tryptase gamma 1 [Homo sapiens]
Official Symbol	TPSG1
Synonyms	TPSG1; tryptase gamma 1; TMT; trpA; PRSS31; tryptase gamma; gamma I; gamma II; lung tryptase; skin tryptase; tryptase gamma I; tryptase gamma II; mast cell tryptase; pituitary tryptase; serine protease 31; mast cell protease II; transmembrane tryptase; EC 3.4.21.59; EC=3.4.21.-; OTTHUMP00000115529
Gene ID	25823
mRNA Refseq	NM_012467
Protein Refseq	NP_036599
MIM	609341
UniProt ID	Q9NRR2

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Chromosome Location	16p13.3
Function	peptidase activity; serine-type endopeptidase activity; serine-type peptidase activity

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