

Recombinant Human TPSD1 protein, His/S-tagged

Cat. No. TPSD1-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TPSD1(Glu99~Glu191) fused with His/S tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	99-191 a.a.
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. These genes are characterized by several distinct features. They have a highly conserved 3' UTR and contain tandem repeat sequences at the 5' flank and 3' UTR which are thought to play a role in regulation of the mRNA stability. Although this gene may be an exception, most of the tryptase genes have an intron immediately upstream of the initiator Met codon, which separates the site of transcription initiation from protein coding sequence. This feature is characteristic of tryptases but is unusual in other genes. Tryptases have been implicated as mediators in the pathogenesis of asthma and other allergic and inflammatory disorders. This gene was once considered to be a pseudogene, although it is now believed to be a functional gene that encodes a protein.
Form	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.

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Molecular Mass	16.2kDa
AA Sequence	MHHHHHHSSG LVPRGSGMKE TAAAKFERQH MDSPDLGTDD DDKAMADIGS EF-EQ HLYYQDQLLP VSRIIVHPQF YIIQTGADIA LLELEEPVNI SSHIHTVTLP PASETFFPPGM PCWVTGWGDV DNNVHLPPPY PLKEVEVPVV E
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	> 95%
Applications	SDS-PAGE; WB; ELISA; IP.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	TPSD1 tryptase delta 1 [Homo sapiens]
Official Symbol	TPSD1
Synonyms	MCP7L1; MMCP-7L; MCP7-LIKE; delta-tryptase; hmMCP-3-like tryptase III; mMCP-7-like delta II tryptase; mMCP-7-like-1; mMCP-7-like-2; mast cell tryptase; tryptase-3
Gene ID	23430
mRNA Refseq	NM_012217
Protein Refseq	NP_036349

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MIM	609272
UniProt ID	Q9BZJ3
Chromosome Location	16p13.3
Function	serine-type endopeptidase activity; serine-type peptidase activity

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