

Recombinant Human TMPRSS2 protein, His-tagged

Cat. No. TMPRSS2-4899H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TMPRSS2(106-492 aa) fused with His tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	106-492 aa
Description	This gene encodes a protein that belongs to the serine protease family. The encoded protein contains a type II transmembrane domain, a receptor class A domain, a scavenger receptor cysteine-rich domain and a protease domain. Serine proteases are known to be involved in many physiological and pathological processes. This gene was demonstrated to be up-regulated by androgenic hormones in prostate cancer cells and down-regulated in androgen-independent prostate cancer tissue. The protease domain of this protein is thought to be cleaved and secreted into cell media after autocleavage. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Form	Tris-based buffer,50% glycerol
AA Sequence	WKFMG SKCSNSGIEC DSSGTCINPS NWCDGVSHCP GGEDENRCVR LYGPNFILQV YSSQRKSWHP VCQDDWNENY GRAACRDMGY KNNFYSSQGI VDDSGSTSFM KLNTSAGNVD IYKKLYHSDA CSSKAVVSLR CIACGVNLNS SRQSRIVGGE SALPGAWPWQ VSLHVQNVHV CGGSITPEW IVTAAHCVEK

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PLNNPWHWTA FAGILRQSFM FYGAGYQVEK VISHPNYDSK TKNNDIALMK
LQKPLTFNDL VKPVCLPNPG MMLQPEQLCW ISGWGATEEK GKTSEVLNAA
KVLLETQRC NSRYVVDNLI TPAMICAGFL QGNVDSCQGD SGGPLVTSKN
NIWWLIGDTS WSGGCAKAYR PGVYGNVMVF TDWIYRQMRA DG

Purity >90% (SDS-PAGE)

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage Store at -20 centigrade, for extended storage, conserve at -20 centigrade or -80 centigrade.

GENE INFORMATION

Gene Name [TMPRSS2 transmembrane protease, serine 2 \[Homo sapiens \]](#)

Official Symbol [TMPRSS2](#)

Synonyms TMPRSS2; transmembrane protease, serine 2; transmembrane protease serine 2; PRSS10; epitheliasin; serine protease 10; PP9284; FLJ41954;

Gene ID [7113](#)

mRNA Refseq [NM_001135099](#)

Protein Refseq [NP_001128571](#)

MIM [602060](#)

UniProt ID [O15393](#)

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Chromosome Location	21q22.3
Pathway	Coregulation of Androgen receptor activity, organism-specific biosystem; Influenza A, organism-specific biosystem; Influenza A, conserved biosystem; Regulation of Androgen receptor activity, organism-specific biosystem; Transcriptional misregulation in cancer, organism-specific biosystem; Transcriptional misregulation in cancer, conserved biosystem;
Function	peptidase activity; scavenger receptor activity; serine-type endopeptidase activity; serine-type peptidase activity;

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