Recombinant Human TMPRSS3 Protein, His tagged

Cat. No. TMPRSS2-011H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Human transmembrane protease, serine 2 (TMPRSS2), transcript variant 2, 106Trp-End, with N-terminal His tag, expressed in E.coli.
Species	Human
Source	E.coli
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. This protein also facilitates entry of viruses into host cells by proteolytically cleaving and activating viral envelope glycoproteins. Viruses found to use this protein for cell entry include Influenza virus and the human coronaviruses HCoV-229E, MERS-CoV, SARS-CoV and SARS-CoV-2 (COVID-19 virus). Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	42.8 kDa

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Note	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Storage Buffer	25 mM Tris-HCl, pH 8.0, 150 mM NaCl, 1% sarkosyl, 10% glycerol
Concentration	> 0.05 μg/μL as determined by microplate BCA method
Shipping	Dry Ice

GENE INFORMATION

Gene ID	7113
Gene Name	TMPRSS2 transmembrane protease, serine 2 [Homo sapiens (human)]
Official Symbol	7113
Synonyms	TMPRSS2; transmembrane protease, serine 2; transmembrane protease serine 2; PRSS10; epitheliasin; serine protease 10; PP9284; FLJ41954;
mRNA Refseq	NM_005656
Official Symbol 2	TMPRSS2

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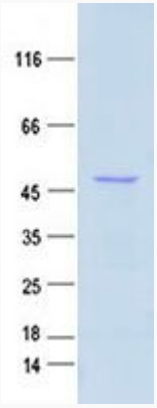
Gene ID 2	7113
Gene Name 2	TMPRSS2 transmembrane protease, serine 2 [Homo sapiens (human)]
mRNA Refseq 2	NM_005656
Protein Refseq 2	NP_005647
MIM 2	602060
UniProt ID 2	O15393
SDS-PAGE	

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