





# Recombinant Human Transmembrane protease serine 2 (TMPRSS2), partial

| <b>Product Code</b> | CSB-MP023924HU  |
|---------------------|---|
| Relevance           | Plasma membrane-anchored serine protease that participates in proteolytic cascades of relevance for the normal physiologic function of the prostate (PubMed:25122198). Androgen-induced TMPRSS2 activates several substrates that include pro-hepatocyte growth factor/HGF, the protease activated receptor-2/F2RL1 or matriptase/ST14 leading to extracellular matrix disruption and metastasis of prostate cancer cells (PubMed:15537383, PubMed:26018085, PubMed:25122198). In addition, activates trigeminal neurons and contribute to both spontaneous pain and mechanical allodynia |
| Abbreviation        | Recombinant Human TMPRSS2 protein, partial  |
| Storage             | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.   |
| Uniprot No.         | O15393  |
| Form                | Liquid or Lyophilized powder  |
| Storage Buffer      | Lyophilized from Tris/PBS-based buffer, 6% Trehalose  |
| Alias               | (Serine protease 10) (PRSS10)   |
| Product Type        | Recombinant Protein   |
| Immunogen Species   | Homo sapiens (Human)  |
| Purity              | Greater than 85% as determined by SDS-PAGE.   |
| Sequence            | WKFMGSKCSNSGIECDSSGTCINPSNWCDGVSHCPGGEDENRCVRLYGPNF ILQVYSSQRKSWHPVCQDDWNENYGRAACRDMGYKNNFYSSQGIVDDSGST SFMKLNTSAGNVDIYKKLYHSDACSSKAVVSLRCIACGVNLNSSRQSRIVGGE SALPGAWPWQVSLHVQNVHVCGGSIITPEWIVTAAHCVEKPLNNPWHWTAFA GILRQSFMFYGAGYQVEKVISHPNYDSKTKNNDIALMKLQKPLTFNDLVKPVCL PNPGMMLQPEQLCWISGWGATEEKGKTSEVLNAAKVLLIETQRCNSRYVYDN LITPAMICAGFLQGNVDSCQGDSGGPLVTSKNNIWWLIGDTSWGSGCAKAYR PGVYGNVMVFTDWIYRQMRADG  |
| Source              | Mammalian cell  |
| Target Names        | TMPRSS2   |
| Protein Names       | Transmembrane protease serine 2   |
| Expression Region   | 106-492 aa  |
| Notes               | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.   |
| Tag Info            | N-terminal 10xHis-tagged and C-terminal Myc-tagged  |







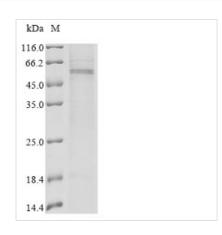
# Mol. Weight

# 47.8 kDa

# **Protein Length**

#### **Partial**

### **Image**



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

## Description

The gene fragment encoding amino acids 106-492 of the human TMPRSS2 is expressed in mammalian cells. The resulting protein is fused with the 10xHis-tag at the N-terminus and with the Myc-tag at the C-terminus, ultimately leading to the production of the recombinant human TMPRSS2 protein. Its purity is greater than 85% measured by SDS-PAGE. On the gel, it migrated to the molecular weight band of about 50 kDa. This recombinant human TMPRSS2 protein is available now. The target protein TMPRSS2 is a serine protease responsible for the priming of SARS-CoV-2 S protein and promoting viral entry. It also plays a role in the occurrence of prostate malignancies.

# Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

## Shelf Life

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