



# Recombinant Human Transmembrane protease serine 2 (TMPRSS2) (R255Q), partial (Active)

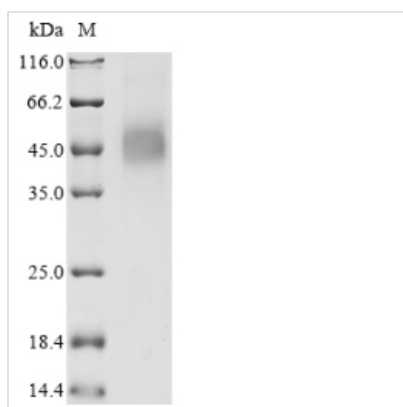
<b>Product Code</b>	CSB-MP023924HU(M)b0
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	O15393
<b>Form</b>	Lyophilized powder
<b>Storage Buffer</b>	Lyophilized from a 0.2 μm sterile filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Biological Activity</b>	①Recombinant Human TMPRSS2 His tag protein (CSB-MP023924HU(M)b0) enzyme activity is measured by its ability to cleave fluorogenic peptide substrate(Boc-Gln-Ala-Arg-AMC), The Km is 19.16μM. ②Measured by Bromhexine Hydrochloride inhibit ratio on TMPRSS2 (CSB-MP023924HU(M)b0), which can cleave fluorogenic peptide substrate (Boc-Gln-Ala-Arg-AMC). The Bromhexine Hydrochloride inhibit EC <sub>50</sub> is 81.79-154.2μM. ③Measured by Camostat Mesylate inhibit ratio on TMPRSS2 (CSB-MP023924HU(M)b0), which can cleave fluorogenic peptide substrate (Boc-Gln-Ala-Arg-AMC). The Camostat Mesylate inhibit EC <sub>50</sub> is 0.005877- 0.01293μM.
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	WKFMGSKCSNSGIECDSSGTCINPSNWCDGVSHCPGGEDENRCVRLYGPNF ILQVYSSQRKSWHPVCQDDWNENYGRAACRDMGYKNNFYSSQGIVDDSGST SFMKLNTSAGNVDIYKKLYHSDACSSKAVVSLRCIACGVNLNSSRQSQIVGGE SALPGAWPWQVSLHVQNVHVCSSITPEWIVTAAHCVEKPLNNPWHWTAF GILRQSFMFYGAGYQVEKVISHPNYDSKTKNNDIALMKLQKPLTFNDLVKPVCL PNPGMMLQPEQLCWISGWGATEEKGKTSEVLNAAKVLIIETQRCNSRYVYDN LITPAMICAGFLQGNVDSCQGDSGGPLVTSKNNIWWLIGDTSWGS GCAKAYR PGVYGNVMVFTDWIYRQMRADG-
<b>Research Area</b>	Biochemicals
<b>Source</b>	Mammalian cell
<b>Target Names</b>	TMPRSS2
<b>Expression Region</b>	106-492aa(R255Q)
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 10xHis-tagged



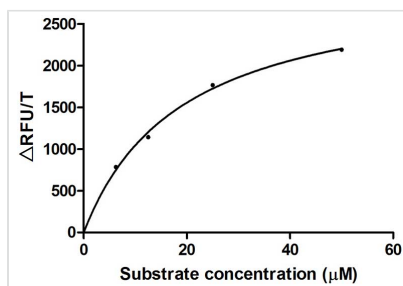
**Mol. Weight** 46.4 kDa

**Protein Length** Partial

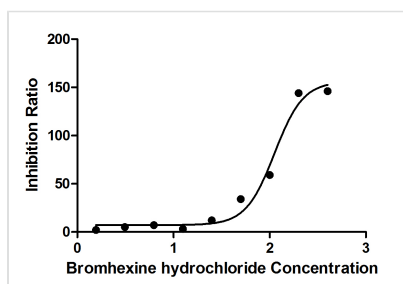
**Image**



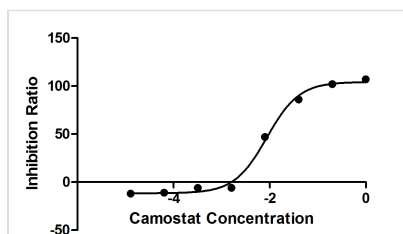
(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



**Activity**  
Recombinant Human TMPRSS2 His tag protein (CSB-MP023924HU(M)b0) enzyme activity is measured by its ability to cleave fluorogenic peptide substrate(Boc-Gln-Ala-Arg-AMC), The  $K_m$  is 19.16μM.



**Activity**  
Measured by Bromhexine Hydrochloride inhibit ratio on TMPRSS2 (CSB-MP023924HU(M)b0), which can cleave fluorogenic peptide substrate (Boc-Gln-Ala-Arg-AMC). The Bromhexine Hydrochloride inhibit  $EC_{50}$  is 81.79-154.2μM.



**Activity**  
Measured by Camostat Mesylate inhibit ratio on TMPRSS2 (CSB-MP023924HU(M)b0), which can cleave fluorogenic peptide substrate (Boc-Gln-Ala-Arg-AMC). The Camostat Mesylate inhibit  $EC_{50}$  is 0.005877- 0.01293μM.

**Endotoxin** Less than 1.0 EU/ug as determined by LAL method.

**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** 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.