

Active Transmembrane Serine Protease 2 (TMPRSS2), Human Recombinant

05/21

CATALOG NO: P1735-10 10 µg
P1735-50 50 µg

ALTERNATE NAMES: Transmembrane Serine Protease 2; PRSS10; Serine Protease 10; Epitheliasin

MOL. WT. 44.8 kDa (calculated)

NCBI GENE ID: 7113

ACCESSION NO.: O15393

PURITY: > 85% by SDS-PAGE

SOURCE: Yeast

AMINO ACID SEQUENCE: Partial sequence of TMPRSS2 (amino acids 106 to 492) with N-terminal 6xHis Tag

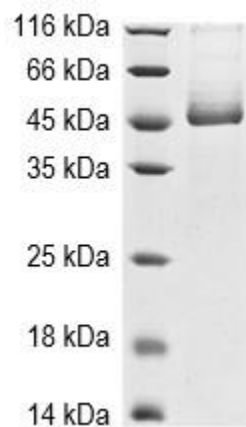
SPECIFIC ACTIVITY: Recombinant Human TMPRSS2 enzyme activity is measured by its ability to cleave fluorogenic peptide substrate (Boc-Gln-Ala-Arg-AMC), K_m is 21.93 µM.

FORM: Liquid

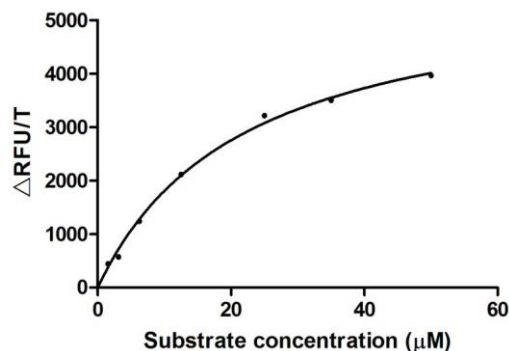
FORMULATION: Tris-based buffer with 50% glycerol

STORAGE CONDITIONS: Aliquot and store at -20 °C or -80 °C. Avoid repeated freeze-thaw cycles.

DESCRIPTION: The transmembrane serine protease 2 (TMPRSS2) plays an important role in the infection mechanism of human coronaviruses such as SARS-CoV-2. Cell entry of SARS-CoV-2 depends on the binding of the viral spike (S) glycoprotein to the ACE2 receptor and S protein priming by TMPRSS2. TMPRSS2 is also shown to be upregulated by androgen in prostate cancer cells and downregulated in androgen-independent prostate cancer.



Recombinant human TMPRSS2 was loaded on SDS-PAGE and visualized by Coomassie Blue stain.



Recombinant human TMPRSS2 is able to cleave a fluorogenic peptide substrate. ($K_m = 21.93 \mu\text{M}$)

RELATED PRODUCTS:

Human CellExp™ ACE1, Human Recombinant (Cat. No. P1660)
 Human CellExp™ SARS-CoV-2 S1, Recombinant (Cat. No. P1666)
 Anti-TMPRSS2 Antibody (Cat. No. A2102)
 Human CellExp™ ACE2, Human Recombinant (Cat. No. P1535)
 Human CellExp™ SARS-CoV-2 S1 (N501Y), Recombinant (Cat. No. P1665)

FOR RESEARCH USE ONLY! Not to be used on humans.