



# Recombinant Human TMPRSS2 (a.a.106-492) [His] (DAGC323)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Recombinant Human Transmembrane protease serine 2(TMPRSS2), partial, N-terminal 6xHis-tagged.
<b>Species</b>	Human
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE
<b>Conjugate</b>	His
<b>Applications</b>	ELISA
<b>Molecular Weight</b>	46.9 kDa
<b>Reconstitution</b>	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.
<b>Format</b>	Liquid or Lyophilized powder
<b>Size</b>	20 µg, 100 µg, 1 mg
<b>Buffer</b>	Tris-based buffer, 50% glycerol
<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C upon receipt, aliquoting is necessary for multiple use. Avoid repeated freeze-thaw cycles.

# BACKGROUND

## Introduction

Transmembrane protease, serine 2 is an enzyme that in humans is encoded by the TMPRSS2 gene. 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.

## Keywords

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