

Recombinant Bovine Transmembrane Protease, Serine 15

Cat. No. TMPRSS15-5347B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant BovineTMPRSS15 is a single glycosylated polypeptide chain containing 235 aminoacids. Its molecular weightis 43000 Dalton.
Species	Bovine
Source	P.pastoris
Description	TMPRSS15 (alsocalled enterokinase) is an enzyme produced by cells of the duodenum andinvolved in human digestion. It is secreted from intestinal glands (thecrypts of Lieberkühn) following the entry of ingested food passing from thestomach. TMPRSS15 converts trypsinogen (a zymogen) into its active formtrypsin, resulting in the subsequent activation of pancreatic digestiveenzymes. TMPRSS15 is a serine protease (EC 3.4.21.9) consisting of adisulfide-linked 82-140 kDa heavy chain which anchors enterokinase in theintestinal brush border membrane and a 35-62 kDa light chain which containsthe catalytic subunit. TMPRSS15 is a part of the chymotrypsin-clan of serineproteases, and is structurally similar to these proteins.
Form	Liquid sterilefiltered in 50 mM Tris-HCl, pH 8.0 + 0.5 M NaCl + 50% Glycerol.
Molecular Weight	43.0 kDa
Endotoxin Level	< 0.1 ng/g
Unit Definition	One unit is definedas the amount of enzyme needed to cleave 50 µg of fusion protein in 16 hoursto 95% completion at 25°C in a buffer containing 25 mM Tris-HCl, pH 7.6 +

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50mM NaCl + 2 mM CaCl₂.

Storage Store at -20°C. 1year. Avoid repeated freeze-thaw cycles.

OfficialSymbol TMPRSS15

GENE INFORMATION

Gene Name [TMPRSS15 transmembrane protease, serine 15\[Bos taurus \]](#)

Synonyms TMPRSS15;transmembrane protease, serine 15; PRSS7; ENTK; Enterokinase; MGC133046;enterokinase; enteropeptidase; proenterokinase; Enteropeptidase precursor;Serine protease 7; EC 3.4.21.9; protease, serine, 7; serine protease(enterokinase); protease, serine, 7 (enterokinase)

Gene ID [282009](#)

mRNA Refseq [NM_174439](#)

Protein Refseq [NP_776864](#)

UniProt ID P98072

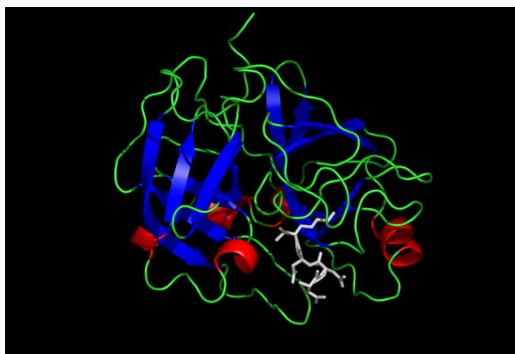
Function peptidaseactivity; scavenger receptor activity; serine-type endopeptidase activity

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**Crystal structure
ofTMPRSS15 with an
inhibitor.**



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