

Recombinant Bovine TMPRSS15 Protein, His-tagged

Cat. No. TMPRSS15-1457B Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Bovine TMPRSS15 fused with His tag at the C-terminus was produced in E. coli.
Species	Bovine
Source	E.coli
Description	Enterokinase (EK) is an amino protease existing in duodenum of mammal and is involved in digestion. It consists of a disulfide-linked 82–140 kDa heavy chain which anchors enterokinase in the intestinal brush border membrane and a 35–62 kDa light chain which contains the catalytic subunit. Additionally, both of the chains are derived from a single precursor that is cleaved by a trypsin-like protease. EK can specially recognize the amino acid sequence DDDDK, and digest the peptide bond after the lysine residue. rEK was report to be more effective than nature EK in cleaving recombinant proteins. Furthermore, the light chain possesses the whole enzyme activity of EK. rBoEK has the highest activity than EK of other species and is used wildly in biochemical applications. rBoEK with 6 × His-tag binds with Ni²⁺ affinity chromatography and was designed for removing from digestion system.
Form	50 mM Tris-HCl, pH 8.0, 0.5 M NaCl and 50 % glycerol.
Molecular Mass	Approximately 28 kDa, a single non-glycosylated polypeptide chain containing 241 amino acids
Endotoxin	Less than 1 EU/ug of rBoEKL, His as determined by LAL method.

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Unit Definition	One unit is defined as the amount of enzyme needed to cleave 50 µg of fusion protein in 16 hours to 95 % completion at 25 centigrade in a buffer containing 25 mM Tris-HCl, pH 7.6, 50 mM NaCl, and 2 mM CaCl ₂ .
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Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. - 6 months from date of receipt, -20 to -70 centigrade as supplied. - 3 months, -20 to -70 centigrade under sterile conditions after opening.
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GENE INFORMATION

Gene Name	TMPRSS15 transmembrane protease, serine 15 [Bos taurus]
Official Symbol	TMPRSS15
Synonyms	PRSS7; enterokinase; protease, serine, 7 (enterokinase); serine protease 7
Gene ID	282009
mRNA Refseq	NM_174439
Protein Refseq	NP_776864
UniProt ID	P98072

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