

Active Recombinant Bovine TMPRSS15 Protein (200 aa), His-tagged

Cat. No. TMPRSS15-158T **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Bovine Enterokinase (rbEK) as the light chain is a single glycosylated polypeptide chain containing 200 amino acids. A fully biologically active molecule, rbEK has a molecular mass of 22.7 kDa and is obtained by proprietary chromatographic techniques.
Species	Bovine
Source	P.pastoris
ProteinLength	200
Description	Enterokinase (EK) is an enzyme produced by cells of the duodenum and involved in human digestion. It plays a role of turning trypsinogen to its active form trypsin, and indirectly activates the pancreatic digestive enzymes. Enterokinase is a specific protease that cleaves after a lysine preceded by four aspartic acids: Asp-Asp-Asp-Asp-Lys. Enterokinase will not work if the recognition site is followed by a proline.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	5 IU/ μ L
Molecular Mass	Theoretical MW: 22.7 kDa.Apparent MW: 40.0 kDa, observed by reducing SDS-PAGE.

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Endotoxin	< 1 EU/μg, determined by LAL method.
Purity	> 95% by SDS-PAGE analyses.
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 22 centigrade in a buffer containing 25mM Tris-HCl, pH 8.0.
Storage	Recombinant Bovine Enterokinase (rbEK) remains stable up to 1 year at -20 centigrade from date of receipt. It will remain stable at 37 centigrade for one week without losing any activity. Please avoid freeze-thaw cycles.
Storage Buffer	Sterile liquid solution contains 20mM Tris, 200mM NaCl, 2mM CaCl ₂ , 50% glycerol, pH 7.4.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name	TMPRSS15 transmembrane serine protease 15 [Bos taurus (cattle)]
Official Symbol	TMPRSS15
Synonyms	TMPRSS15; transmembrane serine protease 15; PRSS7; enteropeptidase; enterokinase; protease, serine, 7 (enterokinase); serine protease 7; transmembrane protease, serine 15; EC 3.4.21.9
Gene ID	282009
mRNA Refseq	NM_174439

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Protein Refseq	NP_776864
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UniProt ID	P98072
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