

[Go to Product page](#)

Datasheet for ABIN2017742 TMPRSS15 Protein

Overview

Quantity:	100 IU
Target:	TMPRSS15
Origin:	Cow
Source:	Yeast (<i>Pichia pastoris</i>)
Protein Type:	Recombinant

Product Details

Characteristics:	5 IU/μl 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 °C in a buffer containing 25 mM Tris-HCl, pH 8.0.
Purity:	> 95 % by SDS-PAGE analyses.
Sterility:	Sterile
Endotoxin Level:	< 1.0 EU/μg, determined by LAL method.
Components:	100 IU (or 500IU or 5000IU) Recombinant Bovine Enterokinase (in 20mM Tris-HCl, pH 7.4, 200mM NaCl, 2mM CaCl ₂ , 50% glycerol) 100 μg Cleavage Control Protein (Lyophilized after extensive dialysis against PBS, pH 7.0) 3.6 ml EK Dilution/Storage Buffer (20mM Tris-HCl, pH 7.4, 200mM NaCl, 2mM CaCl ₂ , 50% glycerol) 1.8 ml 10X EK Cleavage/Capture Buffer (200mM Tris-HCl, pH 7.4, 500mM NaCl, 20mM CaCl ₂) Storage: Store kit components at -20 °C.

Target Details

Target:	TMPRSS15
Alternative Name:	Enterokinase(EK) (TMPRSS15 Products)
Background:	<p>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. 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.</p> <p>Synonyms: Enteropeptidase, ENTK, PRSS7</p>
Molecular Weight:	<p>Theoretical MW: 22.7 kDa.</p> <p>Apparent MW: 40.0 kDa, observed by reducing SDS-PAGE.</p>

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Sterile liquid solution contains 20 mM Tris, 200 mM NaCl, 2 mM CaCl ₂ , 50 % glycerol, pH 7.4.
Handling Advice:	Avoid freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	Recombinant Bovine Enterokinase (rbEK) remains stable up to 1 year at -20 °C from date of receipt. It will remain stable at 37 °C for one week without losing any activity.
Expiry Date:	12 months