

Version: 02

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DATASHEET

Enterokinase, His, Bovine

Cat. No.: Z03004-100; Z03004-500; Z03004-

5000

Size: 100 IU / 500 IU / 5000 IU

Synonyms: Enteropeptidase, ENTK, PRSS7

Source: P. pastoris

Species: Bovine

Biological Activity: 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 25mM Tris-HCl, pH 8.0.

Molecular Weight: ~40 kDa, observed by reducing SDS-PAGE.

Formulation: Sterile liquid solution contians 20mM Tris, 200mM NaCl, 2mM CaCl2, 50% glycerol, pH 7.4.

Purity: > 95% as analyzed by reducing SDS-PAGE. **Endotoxin Level:** < 1.0 EU/μg, determined by gel clot

Endotoxin Level: < 1.0 EU/μg, determined by method.

Storage: 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. Please avoid freeze-thaw cycles.

Description:

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. rbEK with 6 × His-tag binds with Ni2+ affinity chromatography and was designed for removing from digestion system.

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 at GenScript.

Components:

100 IU(or 500IU or 5000IU) Recombinant Bovine Enterokinase (in 20mM Tris-HCl, pH 7.4, 200mM NaCl, 2mM CaCl 2, 50% glycerol)

 $100\mu g$ Cleavage Control Protein (Lyophilized after extensive dialysis against PBS, pH 7.0)

3.6~ml EK Dilution/Storage Buffer (20mM TrisHCl, 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 CaCl₂)



For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.