

Recombinant Bovine Enterokinase (rbEK) Datasheet

Product Name: Recombinant Bovine Enterokinase (rbEK)

Cat. No.: RP-001E

Synonyms: Enteropeptidase, ENTK, PRSS7

Source: E.coli

Species: Bovine

Biological Activity: 5 IU/ μ l.

Unit Definition: One unit is defined as the amount of enzyme needed to cleave 50 μ g of fusion protein in 16 hours to 95% completion at 25°C in a buffer containing 20mM Tris-HCl, 0.1% Tween-20, 50 mM NaCl, 1mM CaCl₂, pH8.0.

Molecular Weight: ~23.7 kDa, observed by reducing SDS-PAGE.

Formulation: Sterile liquid solution contains 20mM Tris-HCl, 0.1% Tween-20, 50mM NaCl, 1mM CaCl₂, pH 8.0.

Purity: > 95% as analyzed by reducing SDS-PAGE.

Endotoxin Level: < 1.0 EU/ μ g, determined by gel clot 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.

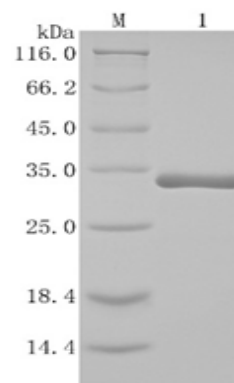
Description:

Recombinant Bovine Enterokinase (rbEK) refers to a laboratory-produced version of the enzyme Enterokinase, derived from bovine (cow) source, which is specifically designed to cleave proteins at a specific amino acid sequence (Asp-Asp-Asp-Asp-Lys) making it a valuable tool in protein purification and research, particularly saving fusion proteins with a designed cleavage site.

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 23.7 kDa and is obtained by proprietary chromatographic techniques at Runtogen.

Components:

Recombinant Bovine Enterokinase (in 20mM Tris-HCl, 0.1% Tween-20, 50mM NaCl, 1mM CaCl₂, pH8.0.)



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