

## Enterokinase Bovine

**Description:**Enterokinase (rEK) Bovine Recombinant is the catalytic subunit of bovine enterokinase, which is expressed by the yeast and purified to yield a high enzyme activity preparation. EK recognizes the sequence Asp-Asp-Asp-Asp-Lys and cleaves the peptide bond after the lysine residue. The enzyme can be used to cleave any fusion protein that carries this sequence. Recombinant Bovine Enterokinase is a single glycosylated polypeptide chain containing 235 amino acids and having an MW of ~43kDa.

Catalog #:ENPS-318

For research use only.

**Synonyms:**Enteropeptidase, EC 3.4.21.9, Enterokinase, Serine protease 7, ENTK, MGC133046.

**Source:**Pichia pastoris.

**Physical Appearance:**Sterile liquid solution.

**Purity:**Greater than 95.0% as determined by SDS-PAGE.

**Formulation:**

Bovine EK in 50mM Tris-HCl, pH 8.0, 0.5M NaCl and 50% glycerol.

**Stability:**

One year when stored at 20°C. Please avoid freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

Enteropeptidase or enterokinase is an enzyme involved in human digestion. It is produced by cells in the duodenum wall, and is secreted from duodenum's glands, the crypts of Lieberkhn, whenever ingested food enters the duodenum from the stomach. Enteropeptidase has the critical job of turning trypsinogen(a zymogen) to trypsin, indirectly activating a number of pancreatic digestive enzymes. Enteropeptidase is a serine protease enzyme (EC3.4.21.9). Enteropeptidase is a part of the Chymotrypsin-clan of serine proteases, and is structurally similar to these proteins.

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