Recombinant Enterokinase

CATALOG NUMBER: EK-001P, 1000U

Introduction Recombinant Enterokinase (rEK) is a highly specific serine protease that recognizes the amino acid sequence Asp-Asp-Asp-Asp-Lys and cleaves the peptide bond after the lysine residue.

Description Recombinant Enterokinase (rEK) is the catalytic subunit of bovine enterokinase, which is expressed by the yeast Pichia pastoris and purified to yield a high enzyme activity preparation. rEK 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.

Source *Yeast*

Contents 1000 units of rEK; 10x rEK buffer

Specifications Volumn: 1000 µl (1 U/ µl)

Unit Definition One unit of rEK is the amount of enzyme that will cleave 20µg of thioredoxin-chloramphenicci acetyl transferase fusion protein containing an enterokinase cleavage site (Asp-Asp-Asp-Asp-Lys) to 90% completion at 37℃ in 16 hours under the assay conditions listed below.

Assay Conditions Recombinant EK in 50mM Tris-HCl, pH 8.0, 1mM $CaCl_2$, 0.1% Tween-20, 20µg of fusion protein, and 1 unit rEK in a 30µl reaction volume incubated at 37℃.

Non-Specific Protease Activity Assay:

A non-specific protease activity assay of rEK was performed using azocasein as substrate. The results show that rEK contains less than background levels of non-specific protease.

Storage rEK in 50mM PBNa, pH 8.0, 0.5M NaCl and 50% glycerol should be stored at -20℃. Guaranteed stable for 3 years when stored properly.

Usage This product is produced for LABORATORY RESEARCH USE ONLY.

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