Recombinant Enterokinase Catalog Number: SJE02
Strength: 1000U
Specifications and Use
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.
Contents: 1000units of rEK. 10× rEK buffer.
Specifications: Volume: 1000µl. Concentration: 1unit/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˚C in 16 hours under the assay conditions listed below.
Assay Conditions: Recombinant EK in 50mM Tris-HCl, pH 8.0, 1mM CaCl2, 0.1% Tween-20, 20µg of fusion protein, and 1 unit rEK in a 30µl reaction volume incubated at 37˚C.
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 Conditions: rEK in 50mM PBNa, pH 8.0, 0.5M NaCl and 50% glycerol should be stored at -20˚C. Guaranteed stable for 3 years when stored properly.
Recombinant Enterokinase (rEK)
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.
FOR RESEARCH USE ONLY. NOT FOR HUMAN USE.

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