Recombinant Enterokinaase

Catalog Number	Size
AG132-100U	100 Units
AG132-1000U	1000 Units

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.

Source *Yeast*

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^{o}C 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^{o}C.

Non-Specific 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^{o}C. Guaranteed stable for 3 years when stored properly.

Recombinant Enterokinaase

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