Technical Data Sheet

Recombinant Bovine Enterokinase

General Information

Product Name: Recombinant Bovine Enterokinase, rb-EK

Catalog Number： A13
Product form： liquid is1 U/μl rb-EK, 50mM Tris-HCl, 50% glycerol, pH8.0；The product is lyophilized from 50mM Tris-HCl(pH8.0) enzyme solution

Mol. Wt.： 26.2 kDa（SDS-PAGE 30 kDa）

Theory pI： 5.20

Specific activity： ≥40000 U/mg，1 mg rb-EK cut at least 2000mg fusion proteins

Purity： ≥95%（SDS-PAGE）

Absorptivity： 280nmAbsorption method, molar absorption coefficient is×$10^5$$(mol/L)^{-1}$·$cm^{-1}$, c(g/L) = A_{280nm}/2.06

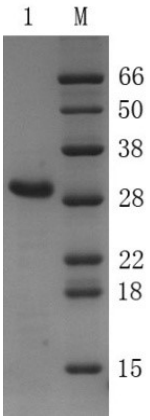
Endotoxin： ≤5EU/mg

Resources: *Escherichia coli (E. coli)*

Product is stable for up to three years from date of receipt at -20°C to -80°C.
Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Description

Enterokinase (EC 3.4.21.9) is a serine proteolytic enzyme, which can recognize the sequence of ASP ASP Lys (ddddk) in protein efficiently and specifically, hydrolyze peptide bond at the C-terminal of lysine (Lys, K), produce cleavage, hydrolyze trypsinogen into trypsin in organism. Because enterokinase has high specificity and efficient enzymatic cleavage, it is widely used in gene engineering. Product development.
The natural enterokinase consists of a heavy chain of 115kda and a light chain of 35kDa. The heavy chain anchors the cell membrane, and the light chain has full enzyme catalytic activity. The core region of light chain activity (235A. A., 26.2kda) secreted and expressed by E.coli is more active than that of bovine enterokinase, which is especially suitable for enzyme digestion of gene engineering fusion protein.



M：Protein marker standard

Lane 1：rb-EK

Notes：

(1) some reagents can affect the enzyme activity, such as > 2m urea, > 250mm NaCl, > 20mm β - me, > 0.1% SDS, > 50mm imidazole. If the sample contains these components, dialysis to 50mm Tris HCl (ph8.0) is required.
(2) phosphate can inhibit the activity of enterokinase, so phosphate buffer should not be used as enzyme cutting system.

Research use only or for further manufacturing