



Recombinant Bovine Enterokinase

Product Name: Recombinant Bovine Enterokinase, rb-EK

Catalog Number: NRPA13

Packing Details: 200U (liquid) 1000 U(liquid), 100 µg, 1 mg

Product form: liquid is 1 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 pl: 5.20

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

Purity: $\geq 95\%$ (SDS-PAGE)

Absorptivity: 280nm Absorption method, molar absorption coefficient is $\times 10^5(\text{mol/L})^{-1} \cdot \text{cm}^{-1}$, $c(\text{g/L}) = A_{280\text{nm}}/2.06$

Endotoxin: $\leq 5\text{EU/mg}$

Resources: Escherichia coli (E. coli)

Storage Condition: -20°C

Storage Duration: 3 years

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.

Notes:

(1) some reagents can affect the enzyme activity, such as $> 2\text{m}$ urea, $> 250\text{mm}$ NaCl, $> 20\text{mm}$ β - me, $> 0.1\%$ SDS, $> 50\text{mm}$ imidazole. If the sample contains these components, dialysis to 50mm Tris HCl (pH8.0) is required.

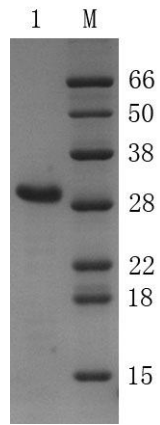
(2) phosphate can inhibit the activity of enterokinase, so phosphate buffer should not be used as enzyme cutting system.

Gentaur Europe BVBA

Voortstraat 49, 1910 Kampenhout BELGIUM
0032 16 58 90 45 info@gentaur.com

Genprice Inc.

547 Yurok Cir San Jose, CA 95123, USA
(408) 780-0908 genprice@gentaur.com



M: Protein marker standard

Lane 1: rb-EK