Product Data Sheet

Product Name: Enteropeptidase (Enterokinase) Recombinant
Cat. No.: GB10045

Chemical Properties

Cas. No.	9014-74-8		
Formula		M.Wt	
Solubility		Storage	-20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Background

This product is a highly active, high-purity recombinant bovine enterokinase, produced in *E. coli* and subjected to *in vitro* refolding. It is a proteolytic enzyme with a highly specific cleavage site; it

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recognizes the sequence DDDDK and cleaves the polypeptide chain at the C-terminal side of the lysine residue. The enzyme can be used to cleave fusion proteins that contain this recognition sequence. Enterokinase retains its activity under a wide range of reaction conditions, effectively cleaving fusion proteins across a broad pH range (4.5–9.5) and temperature range (4–45°C), as well as in the presence of various detergents and denaturing agents. Definition of enzyme activity: One unit is defined as the amount of enzyme that will cleave 95% of 50 µg of fusion protein in 16 hours at 23°C in 1x reaction buffer.

Digestion conditions:
Fusion protein: 0.1 mg
Recombinant enterokinase: 2 U
10x reaction buffer: 10 µl
Temperature (°C): 23
Digestion volume: 100 µl
Duration (hours): 12–16

10x reaction buffer: 500 mM Tris-HCl, pH 8.0; 10 mM $CaCl_2$; 1% Tween-20 (v/v).