

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 CaCl₂; 1% Tween-20 (v/v).

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