

Product: Enteropeptidase/Enterokinase, porcine
Catalog #: 12-4327
Amount: 50 IU

DESCRIPTION:

Recombinant porcine Enteropeptidase/Enterokinase, (pEK)
Porcine enteropeptidase is a specific protease which cleaves after the lysine at its recognition site: Asp-Asp-Asp-Asp-Lys. Enterokinase will not cleave a site followed by proline. If a fusion tag is located in the N-terminus with an enterokinase site, enterokinase will be able to remove the fusion tag and to generate the protein exactly as you need without adding any unwanted residues. pEK enterokinase is a highly purified enterokinase from porcine. The enzyme has been extensively purified and tested to ensure that there are no other contaminating proteases.

SOURCE:

Porcine

ENDOTOXIN:

Less than 0.1 ng/μg (IEU/μg) of pEK

UNIT DEFINITION:

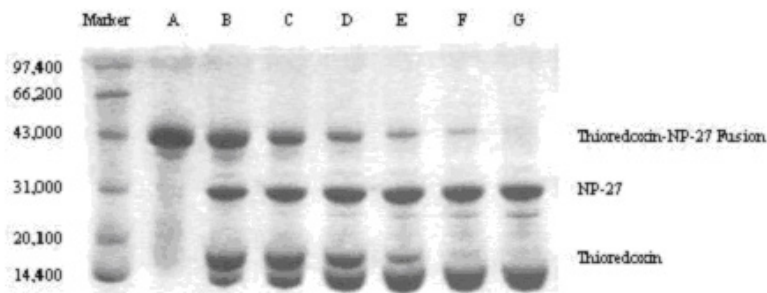
One unit is defined as the amount of enzyme needed to cleave 50 μg of fusion protein in 16 hours to 95% completion at 25°C in a buffer containing 25 mM Tris-HCl, pH 7.6, 50 mM NaCl, and 2 mM CaCl₂.

FORM:

Purified, in 50 mM Tris-HCl, pH 8.0, 0.5M NaCl and 50% glycerol.

STORAGE:

-20°C (aliquot), avoid freezing and thawing cycles

Digestion of Thioredoxin-NP-27 fusion protein with Porcine EK

Each reaction contains 3 μg of partially purified thioredoxin-NP-27 fusion protein and varying amounts of Porcine EK. Reactions were incubated at 25°C for 16 hours and analyzed on a Coomassie-stained 15% SDS gel.

Units of Porcine EK used per reaction are list below:

Lane A: EK Lane; Lane B: 0.0012 units; Lane C: 0.004 units; Lane D: 0.008 units; Lane E: 0.016 units

Lane F: 0.03 units; Lane G: 0.06 units

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