

Enterokinase, light chain



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P8070S 040131114111

P8070S



0.063 µg 2.0 µg/ml Lot: 0401311

RECOMBINANT Store at -20°C Exp: 11/14

Description: Enterokinase is a specific protease that cleaves after lysine at its cleavage site, Asp-Asp-Asp-Asp-Lys. It will sometimes cleave at other basic residues, depending on the conformation of the protein substrate. Enterokinase will not cleave a site followed by proline.

Note: Now sold by weight

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Source: This preparation is purified from *K. lactis* containing a clone of the light chain of the bovine enterokinase gene (1,2).

Supplied in: 20 mM Tris-HCl, 200 mM NaCl, 2 mM CaCl₂, 50% glycerol (pH 7.2 @ 4°C).

Molecular Weight: 26.3 kDa. Its apparent molecular weight on SDS-PAGE is 31 kDa.

Suggested Reaction Conditions: The amount of enzyme required to cleave a fusion protein in a 16 hour reaction at room temperature ranges from 0.0001% to 0.5% (w/w). Cleavage of an MPB-paramyosin-ΔSal fusion protein with an enterokinase site requires 0.0006%.

Unit Definition: 0.00016 µg of Enterokinase will cleave 25 µg of test substrate to 95% completion in 16 hours or less at 25°C.

Unit Assay Conditions: 20 mM Tris-HCl (pH 8.0 @ 25°C), 50 mM NaCl, 2 mM CaCl₂, 25 µg of an MBP fusion protein test substrate and enzyme.

Incubate at 23°C

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Removal: Enterokinase will bind specifically to trypsin inhibitor agarose (e.g., Sigma T-0637).

References:

- Collins-Racie, L.A. et al. (1995) *Biotechnology* 13, 982-987.
- Taron, C. and Colussi, P., unpublished observations.

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CERTIFICATE OF ANALYSIS

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