

## Enterokinase, light chain



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P8070S 041151116111

# P8070S



**0.063 µg**    **2.0 µg/ml**    **Lot: 0411511**  
**RECOMBINANT**    **Store at -20°C**    **Exp: 11/16**

**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 CaCl<sub>2</sub>, 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 CaCl<sub>2</sub>, 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- Taron, C. and Colussi, P., unpublished observations.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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