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## Recombinant Enterokinase

### Product Description

**Recombinant Enterokinase** is a highly purified preparation of the light chain of bovine enterokinase with high specificity and recognizes the identical cleavage site as the native enzyme. The product cleaves fusion proteins with sequence (Asp-Asp-Asp-Asp-Lys ) ↓ at the C-terminal of Lysine. The enzyme is produced in recombinant E.coli and purified to high homogeneity with specificity of 30,000U/mg. It can work at various different conditions, such as 4-45 degree, pH4.5-9.5, even in some detergents or denature reagents.

### Purity

More than 95% by SDS-PAGE analysis.

### Activity

One unit is defined as the amount of enzyme that will cleave 95% of 50μg fusion protein in 16 hours at 23℃ in 1x reaction buffer.

### Recommended Enzyme Digestion Conditions

|                          |       |
|--------------------------|-------|
| Fusion protein           | 0.1mg |
| Recombinant enterokinase | 2U    |
| 10xbuffer                | 10μl  |
| Temperature (℃)          | 23    |
| Total volume             | 100μl |
| Time (hour)              | 12~16 |

### 10x Reaction Buffer

500 mM Tris-HCl, pH 8.0  
10 mM CaCl<sub>2</sub>  
1% Tween-20 (v/v)

### Stability

Stable at -20℃, can be used up to 3 years.

### Reference

LaVallie ER. et al. (1993) J Biol Chem. Nov 5;268(31):23311-7.