

Enterokinase Protein, Bovine, Recombinant (Animal-Free, His)

General Information

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| Synonyms: | ENTK;Enteropeptidase;PRSS7 |
| Species: | Bovine |
| Molecular Weight: | 40 kDa (Reducing conditions) |

QC Testing

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| Biological Activity: | 5 U/μl Unit definition: One unit is defined as the amount of enzyme sufficient to cleave 50 μg of control fusion protein (~24 kDa) in 16 hours to 95% completion at 22 °C in a buffer containing 20 mM Tris-HCl, 50 mM NaCl, 2 mM CaCl ₂ , pH 7.4. |
| Purity: | ≥ 95% as determined by SDS-PAGE |
| Formulation: | Supplied as solution in 20 mM Tris-HCl, 200 mM NaCl, 2 mM CaCl ₂ , 50% glycerol, pH 7.4. |

Preparation and Storage

Stability & Storage:

Upon receiving, the product remains stable for up to 6 months at -20 °C. This product is stable for up to 1 week at 37 °C. Avoid repeated freeze-thaw cycles by making single-use aliquots before the solution is stored at -20 °C.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Enterokinase (EK) is a serine protease produced in the duodenum and involved in mammalian digestion. It activates trypsinogen to trypsin, thereby indirectly initiating the activation of pancreatic digestive enzymes. EK specifically cleaves after the recognition sequence Asp-Asp-Asp-Asp-Lys, but is inactive if a proline follows the cleavage site.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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