

Product Datasheet

RecombinantEnterokinase,His,Bovine (orb1494617)

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| Description | Enterokinase (EK) is an enzyme produced by cells of the duodenum and involved in human digestion. It plays a role of turning trypsinogen to its active form trypsin, and indirectly activates the pancreatic digestive enzymes. Enterokinase is a specific protease that cleaves after a lysine preceded by four aspartic acids: Asp-Asp-Asp-Asp-Lys. Enterokinase will not work if the recognition site is followed by a proline. Recombinant Bovine Enterokinase (rbEK) as the light chain is a single glycosylated polypeptide chain containing 200 amino acids. A fully biologically active molecule, rbEK has a molecular mass of 22.7 kDa and is obtained by proprietary chromatographic techniques at GenScript. |
| Endotoxins | < 1.0 EU/μg, determined by LAL method. |
| Preservatives | Sterile liquid solution contains 20mM Tris, 200mM NaCl, 2mM CaCl ₂ , 50% glycerol, pH 7.4. |
| Form/Appearance | Sterile liquid solution contains 20mM Tris, 200mM NaCl, 2mM CaCl ₂ , 50% glycerol, pH 7.4. |
| Storage | Recombinant Bovine Enterokinase (rbEK) remains stable up to 1 year at -20°C from date of receipt. It will remain stable at 37°C for one week without losing any activity. Please avoid freeze-thaw cycles. |
| Note | For research use only |
| Application notes | Reconstituted in ddH ₂ O or PBS at 100 μg/ml. |
| Purity | > 95% by SDS-PAGE analyses. |
| Source | P. pastoris |
| MW | Theoretical MW: 22.7 kDa. Apparent MW: 40.0 kDa, observed by reducing SDS-PAGE. |
| Expiration Date | 6 months from date of receipt. |

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