

Recombinant Bovine Enterokinase Light Chain, His

Catalog No: #AP60425



Package Size: #AP60425-1 100IU #AP60425-2 250IU #AP60425-3 1kIU

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

Product Name	Recombinant Bovine Enterokinase Light Chain, His
Host Species	Escherichia coli.
Other Names	Enterokinase, Serine Protease 7, Transmembrane Protease Serine 15
Calculated MW	Approximately 28 kDa, a single non-glycosylated polypeptide chain containing 241 amino acids with 6 x His at C-terminus.
Formulation	50 mM Tris-HCl, pH 8.0, 0.5 M NaCl and 50 % glycerol.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.- 6 months from date of receipt, -20 to -70 °C as supplied.- 3 months, -20 to -70 °C under sterile conditions after opening.

Background

Enterokinase (EK) is an amino protease existing in duodenum of mammal and is involved in digestion. It consists of a disulfide-linked 82.0 kDa heavy chain which anchors enterokinase in the intestinal brush border membrane and a 35.0 kDa light chain which contains the catalytic subunit. Additionally, both of the chains are derived from a single precursor that is cleaved by a trypsin-like protease. EK can specially recognize the amino acid sequence DDDDK, and digest the peptide bond after the lysine residue.

rEK was reported to be more effective than nature EK in cleaving recombinant proteins. Furthermore, the light chain possesses the whole enzyme activity of EK.

rBoEK has the highest activity than EK of other species and is used widely in biochemical applications. rBoEK with 6 x His-tag binds with Ni²⁺ affinity chromatography and was designed for removing from digestion system.

Note: This product is for in vitro research use only