

# Recombinant Bovine Enterokinase Light Chain, His

### Information

Gene ID			
Accession #			
Alternate Names	Enterokinase, Serine Protease 7, Transmembrane Protease Serine 15		
Source	Escherichia coli.		
M.Wt	Approximately 28 kDa, a single non-glycosylated polypeptide chain containing 241 amino acids, with 6 × His at C-terminus.		
AA Sequence	The state of the s		
Appearance	Sterile liquid.		
Stability & 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		
Formulation	50 mM Tris-HCl, pH 8.0, 0.5 M NaCl and 50 % glycerol.		
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Biological Activity			
Shipping Condition	Gel pack.		
Handling	Centrifuge the vial prior to opening.		
Usage	For Research Use Only! Not to be used in humans.		

## Components and Storage

Components	100IU	250IU	. 1kIU
Recombinant Bovine Enterokinase Light Chain, His	100IU	250IU	1kIU

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

### Quality Control

Purity	ge fictions and the state of th	
Endotoxin	Less than 1 EU/μg of rBoEKL, His as determined by LAL method.	

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#### Description

Enterokinase (EK) is an amino protease existing in duodenum of mammal and is involved in digestion. It consists of a disulfide-linked 82 - 140 kDa heavy chain which anchors enterokinase in the intestinal brush border membrane and a 35 - 62 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 report 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 wildly in biochemical applications. rBoEK with 6 × His-tag binds with Ni2+ affinity chromatography and was designed for removing from digestion system.

#### Reference

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- 2. Peng L, Zhong X, Ou J, et al. 2004. J Biotechnol, 108: 185-92
- 3. Light AandJanska H. 1991. J Protein Chem, 10: 475-80
- 4. Kubitzki T, Minor D, Mackfeld U, et al. 2009. Biotechnol J, 4: 1610-8.

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