Recombinant Bovine PRSS7

Cat. No. PRSS7-286B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Bovine PRSS7 encoding the light chain (Ile 801-His 1035) of bovine Enterokinase (NP_776864) was expressed in*Human Cells (HEK293)*.
Species	Bovine
Source	HEK293
ProteinLength	801-1035 a.a.
Description	Enterokinase is a member of the trypsin family of serine proteases. The precursor protein is cleaved into two chains which then forms a heterodimer linked by a disulfide bond. The heavy chain anchors enterokinase in the intestinal brush border membrane and the light chain is the catalytic subunit, which initiates conversion activation of a subset of pancreatic proteolytic proenzymes. Enterokinase is the physiological activator of trypsinogen and has a specificity for the sequence (Asp)4-Lys-Ile. The mature trypsin in turn activates other proenzymes including chymotrypsinogen, procarboxypeptidases, and proelastases. In addition, Enterokinase is a tool protease widely utilized in the cleavage of recombinant fusion proteins.
Molecular Mass	The recombinant bovine Enterokinase consists of 234 amino acids and has a calculated molecular mass of 26.1kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 45kDa protein in SDS-PAGE under reducing conditions.
Predicted N Terminal	Ile 801.

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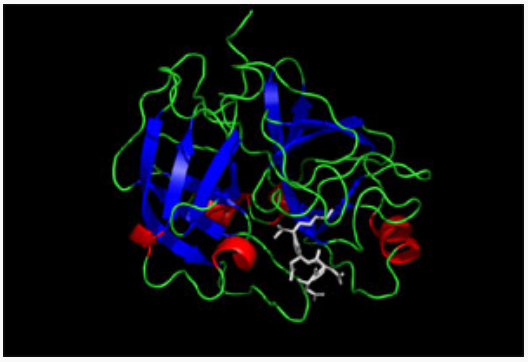
Purity	> 95%, as determined by SDS-PAGE and SEC-HPLC Analysis.
Stability	Samples are stable for up to twelve months from date of receipt -70℃.
Endotoxin	< 1.0 EU per 1μg cytokine as determined by the LAL method.
Reconstitution	Follow the instructions on the vial. Centrifuge the vial at 4℃ before opening to recover the entire contents.
Storage	Store at –70°C; Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	PRSS7 protease, serine, 7 (enterokinase) [Bos taurus]
Synonyms	PRSS7; protease, serine, 7 (enterokinase);EC 3.4.21.9
Gene ID	282009
mRNA Refseq	NM_174439
Protein Refseq	NP_776864
UniProt ID	P98072
Chromosome Location	1
Function	peptidase activity; scavenger receptor activity; serine-type endopeptidase activity

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Crystal structure of Enteropeptidase with an inhibitor.



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