Recombinant Cattle MMP7 Protein, His&GST-tagged

Cat. No. MMP7-1126C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Cattle MMP7 Protein (Asp29-Lys267) with His&GST tag was expressed in E. coli.
Species	Cattle
Source	E.coli
ProteinLength	Asp29-Lys267
Description	This gene encodes a member of the peptidase M10 family of matrix metalloproteinases (MMPs). Proteins in this family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. The encoded preproprotein is proteolytically processed to generate the mature protease. This secreted protease breaks down proteoglycans, fibronectin, elastin and casein and differs from most MMP family members in that it lacks a conserved C-terminal hemopexin domain. The enzyme is involved in wound healing, and studies in mice suggest that it regulates the activity of defensins in intestinal mucosa. The gene is part of a cluster of MMP genes on chromosome 11. This gene exhibits elevated expression levels in multiple human cancers.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 57.0 kDa; Accurate Molecular Mass: 57 kDa

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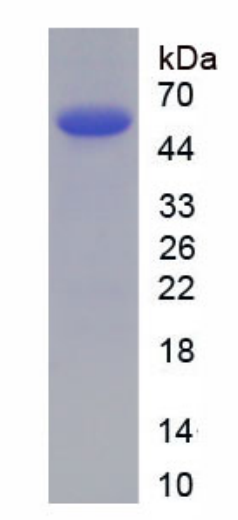
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	100mM NaHCO3, 500mM NaCl, pH8.3, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in ddH2O to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	MMP7 matrix metallopeptidase 7 [Bos taurus (cattle)]
Official Symbol	MMP7
Synonyms	MMP7; matrix metallopeptidase 7; matrilysin; matrix metallopeptidase 7 (matrilysin, uterine); matrix metalloproteinase 7 (matrilysin, uterine); EC 3.4.24.23
Gene ID	286794
mRNA Refseq	NM_001075130
Protein Refseq	NP_001068598

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UniProt ID	Q148N3



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