

Recombinant Cattle S100A7 Protein, GST-tagged

Cat. No. S100A7-1212C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Cattle S100A7 Protein (Met1-Gln101) with GST tag was expressed in E. coli.
Species	Cattle
Source	E.coli
ProteinLength	Met1-Gln101
Description	The protein encoded by this gene is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. This protein differs from the other S100 proteins of known structure in its lack of calcium binding ability in one EF-hand at the N-terminus. The protein is overexpressed in hyperproliferative skin diseases, exhibits antimicrobial activities against bacteria and induces immunomodulatory activities.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 37.5 kDa; Accurate Molecular Mass: 38 kDa
Purity	> 90%

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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	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	S100A7 S100 calcium binding protein A7 [Bos taurus (cattle)]
Official Symbol	S100A7
Synonyms	S100A7; S100 calcium binding protein A7; protein S100-A7; CAAF2; S100 calcium-binding protein A7 (psoriasin 1); calcium-binding protein in amniotic fluid 2; dander minor allergen BDA11; dermal allergen BDA11
Gene ID	282344
mRNA Refseq	NM_174596
Protein Refseq	NP_777021
UniProt ID	Q28050

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