

Recombinant Cattle S100A7 Protein, GST-tagged

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

SPECIFICATION

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| 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

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| Gene Name | S100A7 S100 calcium binding protein A7 [<i>Bos taurus</i> (cattle)] |
| Official Symbol | S100A7 |
| Synonyms | S100A7; S100 calcium binding protein A7; protein S100-A7; CAAF2; S100 calcium-binding protein A7 (psoriasis 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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