

# Recombinant Human S100 Calcium Binding Protein A7

**Cat. No.** S100A7-431H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human full length S100A7 (S100 calcium-binding protein A7, psoriasin) cloned from human cDNA was expressed in <i>E.coli</i> . The protein consists of the human S100A7 swissprot accession Q5SY67. MW = 22.9 kDa (dimer).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | Protein S100-A7 is a protein that in humans is encoded by the S100A7 gene. 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. This protein is markedly over-expressed in the skin lesions of psoriatic patients, but is excluded as a candidate gene for familial psoriasis susceptibility. The protein functions as a prominent antimicrobial peptide mainly against E.coli. |
| <b>Purity</b>           | > 95% by SDS-PAGE. The protein runs as a monomer giving a single band migrating at a molecular weight of <14 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Supplied As</b>      | 2mg/ml in Mes 30mM KCl 150 mM, pH 6.5. The concentration is calculated from the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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absorbance at 280nm ( $e_{280} = 4400 \text{ M}^{-1} \text{ cm}^{-1}$ ).

**Characteristics**

Under the above described conditions, to avoid precipitation, the product can be concentrated to a maximum of 0.4mM (dimer).

**Storage**

-20° C. The protein is stable at 4 °C for at least 2 weeks and at 25 °C for at least 1 day. After initial defrost, aliquot product into individual tubes and refreeze at -20° C. Avoid repeated freeze/thaw cycles.

**Full Length**

Full L.

## GENE INFORMATION

**Gene Name**

[S100A7](#) [S100 calcium binding protein A7 \[ Homo sapiens \]](#)

**Synonyms**

S100A7; S100 calcium binding protein A7; PSOR1; S100A7c; S100A7; S100 calcium-binding protein A7 (psoriasin 1); S100 calcium binding protein A7 (psoriasin 1); psoriasin 1; OTTHUMP00000015328; OTTHUMP00000015327

**Gene ID**

[6278](#)

**mRNA Refseq**

[NM\\_002963](#)

**Protein Refseq**

[NP\\_002954](#)

**MIM**

[600353](#)

**UniProt ID**

[P31151](#)

**Chromosome  
Location**

1q21

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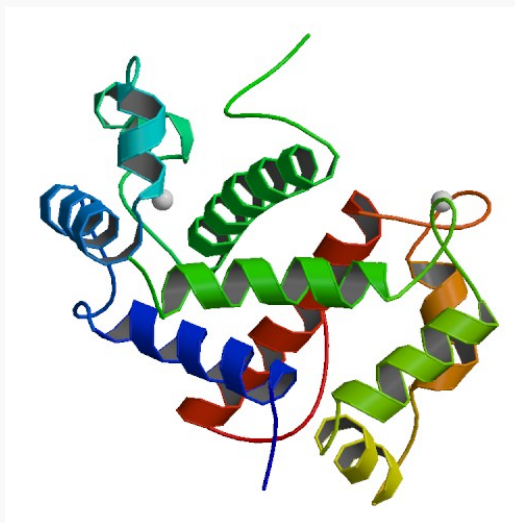
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**Function**

calcium ion binding; protein binding; zinc ion binding

PDB rendering based  
on 1psr.



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