

Recombinant Human S100 Calcium Binding Protein A7

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

SPECIFICATION

Product Overview	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).
Species	Human
Source	E.coli
Description	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.
Purity	> 95% by SDS-PAGE. The protein runs as a monomer giving a single band migrating at a molecular weight of <14 kDa.
Supplied As	2mg/ml in Mes 30mM KCl 150 mM, pH 6.5. The concentration is calculated from the

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

 Tel: 1-631-559-9269 1-516-512-3133

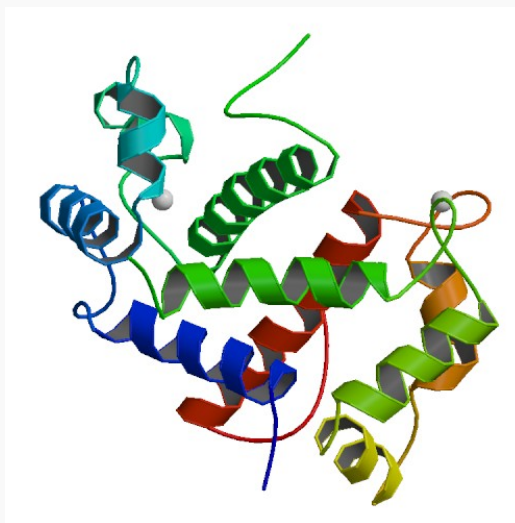
 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Function

calcium ion binding; protein binding; zinc ion binding

PDB rendering based
on 1psr.



Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA