# Recombinant Human S100-A4 Protein

**Catalog No.: RP01564**

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## Sequence Information

**Species**
Human

**Gene ID**
6275

**Swiss Prot**
P26447

**Tags**
No tag

**Synonyms**
18A2,42A,CAPL,FSP1,MTS1,P9KA, PEL98,S100A4, 18A2, 42A, CAPL, FSP1, MTS1, P9KA, PEL98, protein S100-A4

## Product Information

**Source**
*E. coli*

**Purification**
≥ 95 % as determined by SDS-PAGE.

**Calculated MW**
11.60 kDa

**Observed MW**
11-15 kDa

**Endotoxin**
< 0.1 EU/μg of the protein by LAL method.

**Formulation**
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

**Reconstitution**
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Background

S100A4 belongs to the family of small calcium-binding S100 proteins containing two EF-hand calcium-binding motifs. In humans at least 20 S100 family members that are distributed tissue specifically have been identified, and are involved in a number of cellular processes as transducers of calcium signal. S100A4 is a symmetric homodimer, and undergoes a relatively large conformational change upon the typical EF-hand binding calcium, which is necessary for S100A4 to interact with its protein targets and generate biological effects. It can bind the already known targets p53, F-actin, liprin β, myosin heavy chain II, and prevent their phosphorylation and multimerization. It has been demonstrated that S100A4 is directly involved in tumor metastasis including cell motility, invasion, apoptosis, angiogenesis and differentiation, and appears to be a metastasis factor and a molecular marker for clinical prognosis. Multiple alternatively spliced variants encoding the same protein have been identified.

## Basic Information

**Description**
Recombinant Human S100-A4 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Ala2-Lys101) of human S100-A4 (Accession #NP_002952.1) fused with no additional amino acid.

**Activity**

**Shipping**
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

**Storage**
Store at -20℃

**Operational Notes**
For your safety and health, please wear a lab coat and disposable gloves for handling.

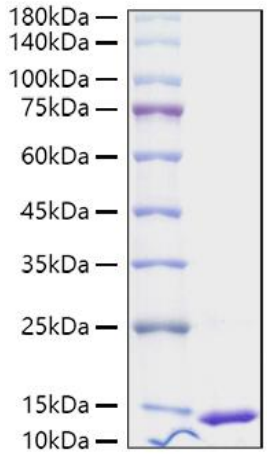
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## Validation Data




Recombinant Human S100-A4 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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