

# Recombinant Human S100-A12 Protein

Catalog No.: RP00009

Recombinant

1 Publications

## Sequence Information

Species	Gene ID	Swiss Prot
Human	6283	P80511

### Tags

C-His

### Synonyms

S100A12;CAAF1;CAGC;CGRP;ENRAGE;MRP-6;MRP6;p6

## Product Information

Source	Purification
<i>E. coli</i>	> 97% by SDS-PAGE.

Calculated MW	Observed MW
11.42 kDa	13 kDa

### Endotoxin

&lt; 0.1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

### 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

 | 400-999-6126

 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)
 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Background

The protein is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and 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 proteins include at least 13 members which are located as a cluster on chromosome 1q21. This protein is proposed to be involved in specific calcium-dependent signal transduction pathways and its regulatory effect on cytoskeletal components may modulate various neutrophil activities. The protein includes an antimicrobial peptide which has antibacterial activity.

## Basic Information

### Description

Recombinant Human S100-A12 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Met1-Glu92) of human S100A12 (Accession #NP\_005612.1) fused with a 6×His tag at the C-terminus.

### Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human S100A12 Protein at 2 μg/mL (100 μL/well) can bind AGER with a linear range of 1.95-14.13 ng/mL.

### Storage

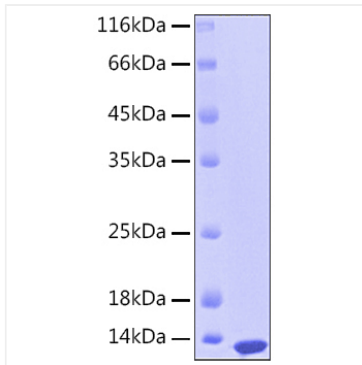
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

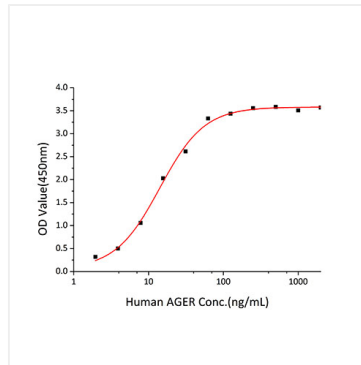
Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human S100-A12 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at approximately 13 kDa.



Immobilized Recombinant Human S100-A12 Protein at 2 $\mu$ g/mL (100  $\mu$ L/well) can bind AGER with a linear range of 1.95-14.13ng/mL.