

**Catalog No.:** RP00009   **Recombinant**   **1 Publications**

Species	Gene ID	Swiss Prot
Human	6283	P80511

## C-His

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

<b>Source</b> <i>E. coli</i>	<b>Purification</b> ≥ 95 % as determined by SDS- PAGE
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Calculated MW	Observed MW
11.42 kDa	13 kDa

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

Lyophilized from a 0.22  $\mu\text{m}$  filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

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 freeze-thaw cycles.

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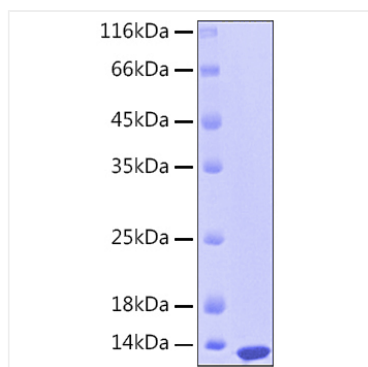
The protein is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 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.

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.

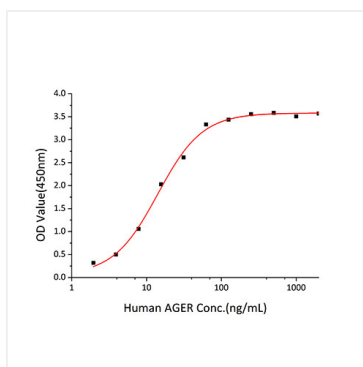
Measured by its binding ability in a functional ELISA. Immobilized Human S100A12 Protein at 2 µg/mL (100 µL/well) can bind AGER with a linear range of 1.95-14.13 ng/mL.

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



Recombinant Human S100-A12 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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.