

# Recombinant human S100A3 protein

Catalog Number: ATGP1078

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-101aa

### UniProt No.

P33764

### NCBI Accession No.

NP\_002951

### Alternative Names

S100 calcium binding protein A3, S100E

## PRODUCT SPECIFICATION

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### Molecular Weight

13.9 kDa (121aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 2mM DTT, 0.2M NaCl.

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

S100A3 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. S100A3 binds calcium with low affinity and zinc with high affinity and is believed to play a role in the calcium-dependent differentiation of cuticle cells and in the formation of hair shafts. Recombinant human S100A3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MARPLEQAVA AIVCTFQEYA GRCGDYKLC QAEKELLQK ELATWTPTEF RECDYNKFMS  
VLDTNKDCEV DFVEYVRS LA CLCLYCHEYF KDCPSEPPCS Q

## General References

Fritz G., et al. (1998) *Biochim Biophys Acta*. 1448(2):264-76.  
Kizawa K., et al. (2008) *J Biol Chem*. 283(8):5004-13.

## DATA

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### SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

