

# Recombinant mouse S100A4 protein

Catalog Number: ATGP1080

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-101aa

### UniProt No.

P07091

### NCBI Accession No.

NP\_035441

### Alternative Names

S100 calcium binding protein A4, 18A2, 42a, Capl, FSp1, metastasin, Mts1, PeL98, pk9a

## 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, 0.1M NaCl.

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### 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

S100A4 belongs to the S100 super-family of proteins containing 2 EF-hand calcium binding domains. This protein is ubiquitously overexpressed and is localized in the cytoplasm and/or nucleus. S100A4 may play a role in motility, invasion, and tubulin polymerization. Chromosomal rearrangements and altered expression of the S100A4 have been implicated in tumor metastasis. Recombinant mouse S100A4 protein, fused to His-tag at N-

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terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

### Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MARPLEEALD VIVSTFHKYS GKEGDKFKLN KTELKELLTR ELPSFLGKRT DEAAFQKVMS  
NLDSNRDNEV DFQEYCVFLS CIAMMCNEFF EGCPDKEPRK K

### General References

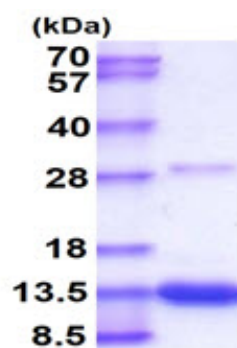
Sherbet GV., et al. (2009) Cancer Lett. 280(1):15-30.

Ambartsumian N., et al. (1995) Gene. 159(1):125-30.

## DATA

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### SDS-PAGE



15% SDS-PAGE (3ug)

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