# Recombinant mouse S100A4 protein

Catalog Number: ATGP1080

## PRODUCT INFORMATION

**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

**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

**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

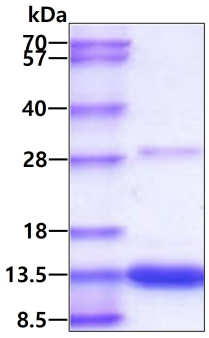
<MGSSHHHHHH SSGLVPRGSH> MARPLEEALD VIVSTFHKYS GKEGDKFKLN KTELKELLTR ELPSFLGKRT DEAAFQKVMS NLDSNRDNEV DFQEYCVFLS CIAMMCNEFF EGCPDKEPRK K

### General References

Sherbet GV., et al. (2009) Cancer Lett. 280(1):15-30.
Ambartsumian N., et al. (1995) Gene. 159(1):125-30.

## DATA

### SDS-PAGE




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