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# Recombinant mouse \$100A4 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**

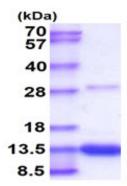
MGSSHHHHHH SSGLVPRGSH MARPLEEALD VIVSTFHKYS GKEGDKFKLN KTELKELLTR ELPSFLGKRT DEAAFQKVMS NLDSNRDNEV DFQEYCVFLS CIAMMCNEFF EGCPDKEPRK K

#### **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**



15% SDS-PAGE (3ug)

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

