

## Product datasheet for **AR39020PU-N**

### **S100A4 (1-101, His-tag) Mouse Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	S100A4 (1-101, His-tag) mouse recombinant protein, 0.1 mg
<b>Species:</b>	Mouse
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	<u>MGSSHHHHHH SSGLVPRGSH</u> MARPLEEALD VIVSTFHKYS GKEGDKFKLN KTELKELLTR ELPSFLGKRT DEAAFQKVMS NLDSNRDNEV DFQEYCVFLS CIAMMCNEFF EGCPDKEPRK K
<b>Tag:</b>	His-tag
<b>Predicted MW:</b>	13.9 kDa
<b>Concentration:</b>	lot specific
<b>Purity:</b>	>90%
<b>Buffer:</b>	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 2 mM DTT, 0.1M NaCl
<b>Preparation:</b>	Liquid purified protein
<b>Protein Description:</b>	Recombinant mouse S100A4 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Storage:</b>	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>RefSeq:</b>	<u>NP_035441</u>
<b>Locus ID:</b>	20198
<b>UniProt ID:</b>	<u>P07091, Q545V2</u>
<b>Cytogenetics:</b>	3 39.27 cM
<b>Synonyms:</b>	18A2; 42a; Cap1; FSp1; metastasin; Mts1; PeL98; pk9a



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**Summary:**

Calcium-binding protein that plays a role in various cellular processes including motility, angiogenesis, cell differentiation, apoptosis, and autophagy (PubMed:20519440). Increases cell motility and invasiveness by interacting with non-muscle myosin heavy chain (NMMHC) IIA/MYH9 (PubMed:8051043). Mechanistically, promotes filament depolymerization and increases the amount of soluble myosin-IIA, resulting in the formation of stable protrusions facilitating chemotaxis (PubMed:8051043). Modulates also the pro-apoptotic function of TP53 by binding to its C-terminal transactivation domain within the nucleus and reducing its protein levels (By similarity). Within the extracellular space, stimulates cytokine production including granulocyte colony-stimulating factor and CCL24 from T-lymphocytes (PubMed:20103644). In addition, stimulates T-lymphocyte chemotaxis by acting as a chemoattractant complex with PGLYRP1 that promotes lymphocyte migration via CCR5 and CXCR3 receptors (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**