



# Recombinant Protein Technical Manual

## Recombinant Mouse S100A11 Protein (His Tag)

RPES3712

### Product Data:

**Product SKU:** RPES3712

**Size:** 20µg

**Species:** Mouse

**Expression host:** E. coli

**Uniprot:** NP\_058020.1

### Protein Information:

**Molecular Mass:** 13.2 kDa

**AP Molecular Mass:** 14 kDa

**Tag:** N-His

**Bio-activity:**

**Purity:** > 90 % as determined by SDS-PAGE

**Endotoxin:** Please contact us for more information.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from sterile PBS, 10% glycerol, pH 7.4

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Protein S100-A11; Calgizzarin; Endothelial monocyte-activating polypeptide; EMAP; Protein S100-C; S100 calcium-binding protein A11; S100a11; S100c;cal;Emap1;EMAPI;S100A11;S100a14;S100c

## Immunogen Information:

**Sequence:** Met1-Ile98

## Background:

Protein S100-A11, also known as S100 calcium-binding protein A11, S100A11 and MLN70, is a member of the S00 family. S100A11 is widely expressed in multiple tissues, and is located in cytoplasm, nucleus, and even cell periphery. S100A11 exists as a non-covalent homodimer with an antiparallel conformation. Ca(2+) binding to S100A11 would trigger conformational changes which would expose the hydrophobic cleft of S100A11 and facilitate its interaction with target proteins. As a dual cell growth mediator, S100A11 acts as either a tumor suppressor or promoter in many different types of tumors and would play respective roles in influencing the proliferation of the cancer cells. In the nucleus, S100A11 suppresses the growth of keratinocytes through p21 (CIP1/WAF1) activation and induces cell differentiation. S100A11 is also a novel diagnostic marker in breast carcinoma.