

# Recombinant Mouse S100a9 protein (His Tag)

Catalog Number:PDEM100021



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

## Description

### Synonyms

Leukocyte L1 complex heavy chain;60B8AG;CAGB;Calgranulin B;Calgranulin-B;Calprotectin L1H subunit;CFAG;CGLB;Cystic fibrosis antigen B;L1AG;Leukocyte L1 complex heavy chain;LIAG;MAC387;MIF;Migration inhibitory factor related protein 14;Migration inhibitory factor-related protein 14;MRP 14;MRP-14;MRP14;Myeloid-related protein 14;NIF;OTTHUMP0000015331;p14;Protein S100-A9;S100 A9;S100 calcium binding protein A9;S100 calcium binding protein A9 calgranulin B;S100 calcium-binding protein A9;S100A9;S10A9

### Species

Mouse

### Expression Host

E.coli

### Sequence

Ala2-Lys113

### Accession

P31725

### Calculated Molecular Weight

14.3 kDa

### Observed molecular weight

15-18 kDa

### Tag

N-His & C-His

### Bioactivity

Immunogen(D-AB-10127L)

## Properties

### Purity

> 95 % as determined by reducing SDS-PAGE.

### Endotoxin

Please contact us for more information.

### Storage

Generally, 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, pH 7.4.

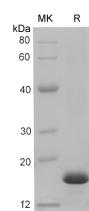
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

### Reconstitution

Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

## For Research Use Only

A Reliable Research Partner in Life Science and Medicine

Toll-free: 1-888-852-8623

Tel: 1-832-243-6086

Fax: 1-832-243-6017

Web: [www.elabscience.com](http://www.elabscience.com)

Email: [techsupport@elabscience.com](mailto:techsupport@elabscience.com)

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S100A9 is a calcium- and zinc-binding protein which plays a prominent role in the regulation of inflammatory processes and immune response. It can induce neutrophil chemotaxis, adhesion, can increase the bactericidal activity of neutrophils by promoting phagocytosis via activation of SYK, PI3K/AKT, and ERK1/2 and can induce degranulation of neutrophils by a MAPK-dependent mechanism. Predominantly found as calprotectin (S100A8/A9) which has a wide plethora of intra- and extracellular functions. The intracellular functions include: facilitating leukocyte arachidonic acid trafficking and metabolism, modulation of the tubulin-dependent cytoskeleton during migration of phagocytes and activation of the neutrophilic NADPH-oxidase.

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Email: [techsupport@elabscience.com](mailto:techsupport@elabscience.com)

Fax: 1-832-243-6017