

# Recombinant Mouse S100a8 protein (His Tag)

Catalog Number:PDEM100028



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

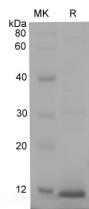
## Description

<b>Synonyms</b>	60B8AG;CAGA;Calgranulin A;Calprotectin L1L subunit;CFAG;CGLA;CP10;Cystic fibrosis antigen;L1Ag;MA387;MIF;MRP-8;MRP8;NIF;P8;Protein S100-A8;S100A8;Urinary stone protein band A;Pro-inflammatory S100 cytokine;S100 calcium-binding protein A8
<b>Species</b>	Mouse
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Pro2-Glu89
<b>Accession</b>	P27005
<b>Calculated Molecular Weight</b>	11.5 kDa
<b>Observed molecular weight</b>	10-11 kDa
<b>Tag</b>	N-His
<b>Bioactivity</b>	Immunogen(D-AB-10348L)

## Properties

<b>Purity</b>	> 90 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	Please contact us for more information.
<b>Storage</b>	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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	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.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



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## Background

S100A8 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 and adhesion. 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

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during migration of phagocytes and activation of the neutrophilic NADPH-oxidase. Activates NADPH-oxidase by facilitating the enzyme complex assembly at the cell membrane, transferring arachidonic acid, an essential cofactor, to the enzyme complex and S100A8 contributes to the enzyme assembly by directly binding to NCF2/P67PHOX. The extracellular functions involve proinflammatory, antimicrobial, oxidant-scavenging and apoptosis-inducing activities. Its proinflammatory activity includes recruitment of leukocytes, promotion of cytokine and chemokine production, and regulation of leukocyte adhesion and migration.

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