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## Datasheet for ABIN7320935 **S100A8 Protein (His tag)**

### Overview

Quantity:	100 µg
Target:	S100A8
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This S100A8 protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Mouse S100a8 protein (His Tag)
Sequence:	2P-89G
Characteristics:	A DNA sequence encoding the Mouse S100a8 protein(P27005) (2P-89G) was expressed with a polyhistidine tag at the N-terminus.
Purity:	>90 % as determined by reducing SDS-PAGE.
Biological Activity Comment:	Immunogen(E-AB-40356)

### Target Details

Target:	S100A8
Alternative Name:	S100a8 ( <a href="#">S100A8 Products</a> )
Background:	Background: S100A8 is a calcium- and zinc-binding protein which plays a prominent role in the

## Target Details

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 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.

Synonym: 60B8AG, CAGA, Calgranulin A, Calprotectin L1L subunit, CFAG, CGLA, CP 10, 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

Molecular Weight: 11.5kDa

UniProt: [P27005](#)

Pathways: [Transition Metal Ion Homeostasis](#), [Positive Regulation of Endopeptidase Activity](#), [S100 Proteins](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Lyophilized

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

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: 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.