A Reliable Research Partner in Life Science and Medicine

Recombinant Mouse S100a8 protein (His Tag)

Catalog No. PKSM500008

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

Description

Synonyms 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, \$100 calcium-binding protein A8

SpeciesMouseExpression HostE.coliSequencePro2-Glu89AccessionP27005Calculated Molecular Weight11.5 kDaObserved molecular weight10-11 kDaTagN-His

Bioactivity Immunogen(E-AB-40356)

Properties

Purity > 90 % 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.

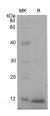
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

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



> 90 % as determined by reducing SDS-PAGE.

For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

Web: www.elabscience.com

Email: techsupport@elabscience.com

Elabscience Bionovation Inc.

Fax: 1-832-243-6017



A Reliable Research Partner in Life Science and Medicine

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 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.

For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086

Web: www.elabscience.com Email: techsupport@elabscience.com