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Recombinant Mouse S100a9 protein (His Tag)

Catalog No. PKSM500001

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,OTTHUMP00000015331,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

SequenceAla2-Lys113AccessionP31725Calculated Molecular Weight14.3 kDaObserved molecular weight15-18 kDaTagN-His & C-His

Bioactivity Immunogen(E-AB-40341)

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.

For Research Use Only

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Background

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 (\$100A8/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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