

S100A9 recombinant protein

S100A9 Protein, Human, Recombinant (His Tag)

CATALOG #
AAA257436

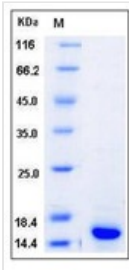
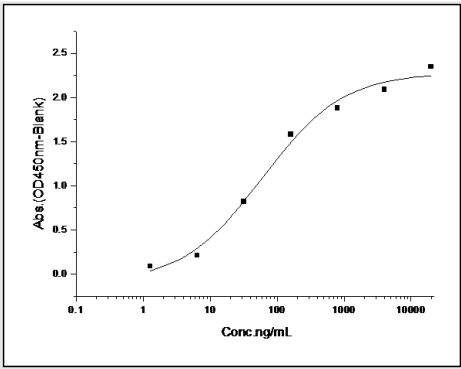
HOST
Baculovirus-Insect Cells

PRODUCT SYNONYMS

S100A9; S100A9 Protein; Human; Recombinant (His Tag); Human S100A9/CAGB/p14 Protein (His Tag); S100 calcium binding protein A9; 60B8AG Protein; CAGB Protein; CFAG Protein; CGLB Protein; L1AG Protein; LIAG Protein; MAC387 Protein; MIF Protein; MRP-14 Protein; MRP14 Protein; NIF Protein; P14 Protein; S100A9 recombinant protein

PRODUCT SPECIFICATIONS

Host	Baculovirus-Insect Cells
Purity/Purification	>95 % as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4 Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence Positions	124aa
Sequence	Met1-Pro114
Species	Human
Tag	C-His
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Met
Protein Construction	JA DNA sequence encoding the human S100A9 (NP_002956.1) (Met 1-Pro 114) was expressed, fused with a polyhistidine tag at the C-terminus
Activity	Measured by its binding ability in a functional ELISA. Immobilized S100A8-His at 10ug/ml (100ul/well) can bind S100A9-His. The EC50 of S100A9-His is 0.35-0.70ug/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. Shipping: They are shipped out with blue ice pack



Application Data

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Measured by its binding ability in a functional ELISA. Immobilized S100A8-His at 10 ug/ml (100 ul/well) can bind S100A9-His (Cat: 11145-H08B). The EC50 of S100A9-His (Cat: 11145-H08B) is 0.35-0.70 ug/mL.

ADDITIONAL INFORMATION

Related Product Information for S100A9 recombinant protein	S100 protein is a family of low molecular weight protein found in vertebrates characterized by two EF-hand calcium-binding motifs. There are at least 21 different S100 proteins, and the name is derived from the fact that the protein is 100% soluble in ammonium sulfate at neutral pH. Most S100 proteins are disulfide-linked homodimer, and is normally present in cells derived from the neural crest, chondrocytes, macrophages, dendritic cells, etc. S100 proteins have been implicated in a variety of intracellular and extracellular functions. They are involved in regulation of protein phosphorylation, transcription factors, the dynamics of cytoskeleton constituents, enzyme activities, cell growth and differentiation, and the inflammatory response. Protein S100-A9, also known as S100 calciumbinding protein A9, S100A9, and CAGB, is a member of the S-100 family. S100A9 is expressed by macrophages in acutely inflammed tissues and in chronic inflammation. It is also expressed in epithelial cells constitutively or induced during dermatoses. S100A9 is a calcium-binding protein. It has anti-microbial activity towards bacteria and fungi. The anti-microbial and proapoptotic activity of S100A9 is inhibited by zinc ions. S100A9 plays a role in the development of endotoxic shock in response to bacterial lipopolysaccharide (LPS). It promotes tubulin polymerization when unphosphorylated. It also promotes phagocyte migration and infiltration of granulocytes at sites of wounding. S100A9 plays a role as a proinflammatory mediator in acute and chronic inflammation and up-regulates the release of IL8 and cell-surface expression of ICAM1.
Product Categories/Family for S100A9 recombinant protein	Calcium-binding Proteins and Related Molecules
References	Miyasaki KT. et al., 1993, J Dent Res. 72: 517-23. Fano G. et al., 1995, Prog Neurobiol. 46 (1): 71-82. Vogl T. et al., 2004, Blood. 104: 4260-8. Viemann D. et al., 2005, Blood. 105: 2955-62. Nakatani Y. et al., 2005, Mediators Inflamm. 2005: 280-92. Bjoerk P. et al., 2009, PLoS Biol. 7: E97-E97.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506773
NCBI GeneID	6280
NCBI Accession #	NP_002956.1
NCBI GenBank Nucleotide #	NM_002965.3
UniProt Accession #	P06702; Q6FGA1; Q9NYM0; Q9UCJ1; D3DV36
Molecular Weight	13,242 Da
NCBI Official Full Name	protein S100-A9
NCBI Official Synonym Full Names	S100 calcium binding protein A9
NCBI Official Symbol	S100A9

NCBI Official Synonym Symbols	MIF; NIF; P14; CAGB; CFAG; CGLB; L1AG; LIAG; MRP14; 60B8AG; MAC387
NCBI Protein Information	protein S100-A9; MRP-14; S100 calcium-binding protein A9 (calgranulin B); calgranulin-B; calprotectin L1H subunit; leukocyte L1 complex heavy chain; migration inhibitory factor-related protein 14
UniProt Protein Name	Protein S100-A9
UniProt Gene Name	S100A9
UniProt Synonym Gene Names	CAGB; CFAG; MRP14; MRP-14; p14
UniProt Entry Name	S10A9_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/s100a9-recombinant-protein-baculovirus-insect-cells/257436>