

S100 Calcium Binding Protein A9 (S100A9) Active Protein | S100A9 active protein

Active S100 Calcium Binding Protein A9 (S100A9)

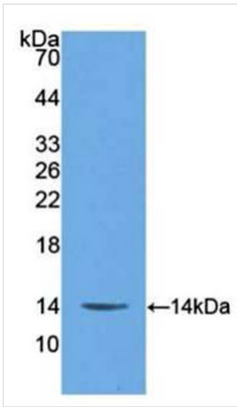
CATALOG # AAA153103	HOST E. coli	REACTIVITY Homo sapiens (Human)	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

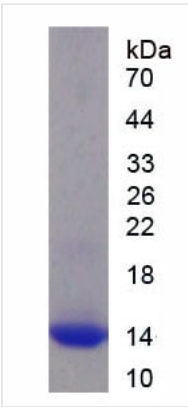
S100 Calcium Binding Protein A9 (S100A9); Active S100 Calcium Binding Protein A9 (S100A9); S100 Calcium Binding Protein A9; S100A9 active protein (prokaryotic); Human; MRP14; MIF; 60B8AG; CFAG; NIF; CAGB; CGLB; L1AG; P14; Calgranulin B; Migration inhibitory factor-related protein 14; Calprotectin L1H subunit; Leukocyte L1 complex heavy chain; S100A9 active protein

PRODUCT SPECIFICATIONS

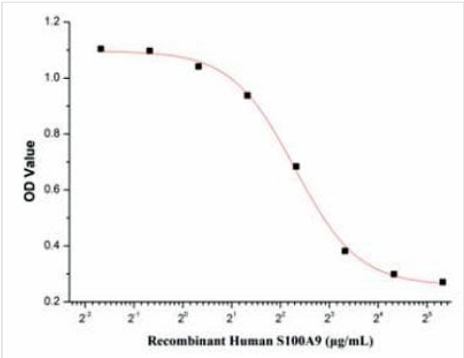
Host	E. coli
Reactivity	Homo sapiens (Human)
Purity/Purification	>95%
Form/Format	PBS, pH7.4, containing 0.01% Sarcosyl, 5% Trehalose.
Concentration	Original Concentration: 2000ug/mL (varies by lot)
Applicable Applications for S100A9 active protein	Activity Assay, Cell Culture
Source	Prokaryotic expression.
Residues	Met1~Pro114
Tags	N-terminal His-tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method).
Predicted isoelectric point	6.1
Usage	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.



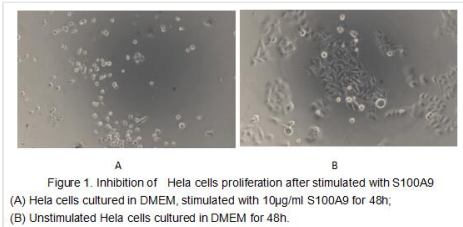
WB (Western Blot)
Sample: Recombinant S100A9, Human;Antibody: Rabbit Anti- Human S100A9 Ab



SDS_PAGE
Sample: Active recombinant S100A9, Human



Application Data
Inhibition of Hela cells proliferation after stimulated with S100A9.



Bioactivity
S100 calcium-binding protein 9 (S100A9) also known as calgranulin B, is a member of the S100 family of secreted calcium binding proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. Besides, it has been reported that S100A9 can inhibit Hela cells proliferation. To test the effect of S100A9 on cell apoptosis, Hela cells were seeded into 96-well plates at a density of 4,000 cells/well with 1% serum standard DMEM including various concentrations of recombinant human S100A9. After incubated for 48h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10ul of CCK-8 solution was added to each well of the plate, then the absorbance at 450nm was measured using a microplate reader after incubating the plate for 1h at 37°. Proliferation of Hela cells after incubation with S100A9 for 48h observed by inverted microscope was shown in Figure 1. Cell viability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubation with recombinant human S100A9 for 48h. The result was shown in Figure 2. It was obvious that S100A9 significantly inhibit cell viability of Hela cells. The ED50 is 4.8ug/mL.

MTCKMSQLR NIETIINTFH QYSVKLGHPD TLNQGEFKEL VRKDLQNFLL KENKNEKVE
HIMEDLDNTA DKQLSFEFEI MLMARLTWAS HEKMHEGDEG PGHHHKPGLG EGTP

Sequence

ADDITIONAL INFORMATION

Product Categories/Family for S100A9 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	49457442
UniProt Accession #	P06702; Q6FGA1; Q9NYM0; Q9UCJ1; D3DV36
Molecular Weight	Predicted Molecular Mass: 14.5kDa Accurate Molecular Mass: 14kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	S100A9
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.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-homo-sapiens-human-active-protein/s100-calcium-binding-protein-a9-s100a9/153103>