

S100 Calcium Binding Protein A8 (S100A8) Active Protein | S100A8 active protein

Active S100 Calcium Binding Protein A8 (S100A8)

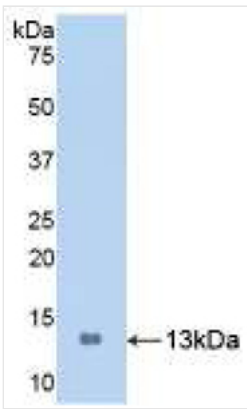
CATALOG # AAA149250	HOST E. coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

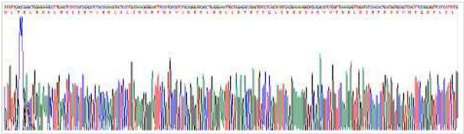
S100 Calcium Binding Protein A8 (S100A8); Active S100 Calcium Binding Protein A8 (S100A8); MRP8; MIF; 60B8AG; CAGA; CFAG; CGLA; CP-10; L1Ag; NIF; P8; Calgranulin A; Cystic fibrosis antigen; Leukocyte L1 complex light chain; Migration inhibitory factor-related protein 8; S100A8 active protein

PRODUCT SPECIFICATIONS

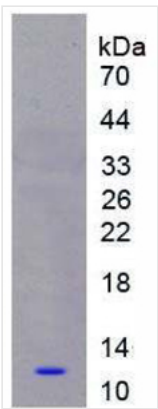
Host	E. coli
Purity/Purification	>95%
Form/Format	20mM Tris, 150mM NaCl, pH8.0, containing 0.01% SKL, 5% Trehalose.
Concentration	1mg/mL (varies by lot)
Sequence Positions	Met1~Glu93
Applicable Applications for S100A8 active protein	Activity Assay, Cell Culture
Organism Species	Homo sapiens (Human)
Source	Prokaryotic expression.
Tags	N-terminal His-tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method).
Usage	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) 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°C for one month. Aliquot and store at -80°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°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.



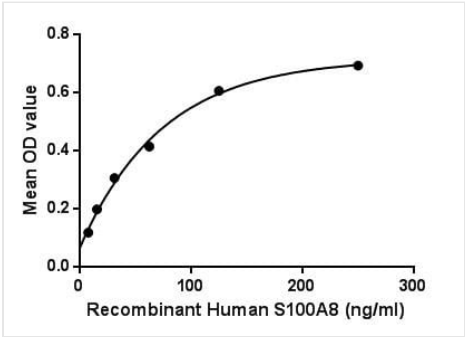
WB (Western Blot)
Sample: Recombinant S100A8, Human;Antibody: Rabbit Anti-Human S100A8 Ab



Gene Sequencing
Gene Sequencing (extract)



SDS_PAGE



Bioactivity
S100 calcium-binding protein A8 (S100A8) also known as calgranulin A, is a member of the S100 family of 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, S100 Calcium Binding Protein A9 (S100A9) has been identified as an interactor of S100A8, thus a binding ELISA assay was conducted to detect the interaction of recombinant human S100A8 and recombinant human S100A9. Briefly, S100A8 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100?L were then transferred to S100A9-coated microtiter wells and incubated for 2h at 37?. Wells were washed with PBST and incubated for 1h with anti-S100A8 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50?L stop solution to the wells and read at 450nm immediately. The binding activity of S100A8 and S100A9 was shown in Figure 1, and this effect was in a dose dependent manner. The binding activity of S100A8 with S100A9.

MLTELEKALN SIIDVYHKYS LIKGNFHAVY RDDLKLLLET ECPQYIRKKG
ADVWFKELDI NTGAVNFQE FLILVIKMGV AAHKKSHEES HKE

Sequence

ADDITIONAL INFORMATION

Product Categories/Family for S100A8 active protein	Tumor immunity; Infection immunity
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NCBI AND UNIPROT INFORMATION

NCBI GI #	47115285
NCBI GeneID	6279
UniProt Accession #	P05109

Molecular Weight	Predicted isoelectric point: 6.6 Predicted Molecular Mass: 12.1kDa Accurate Molecular Mass: 12kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	S100A8, partial
NCBI Official Synonym Full Names	S100 calcium binding protein A8
NCBI Official Symbol	S100A8
NCBI Official Synonym Symbols	P8; MIF; NIF; CAGA; CFAG; CGLA; L1Ag; MRP8; CP-10; MA387; 60B8AG
NCBI Protein Information	protein S100-A8
UniProt Protein Name	Protein S100-A8
UniProt Gene Name	S100A8
UniProt Synonym Gene Names	CAGA; CFAG; MRP8; CFAG; MRP-8; p8
UniProt Entry Name	S10A8_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-active-protein/s100-calcium-binding-protein-a8-s100a8/149250>