

Recombinant Human S100A8, His-tagged

Cat. No. S100A8-3732H Lot. No. (See product label)

SPECIFICATION

Product Overview	Total 103 AA. MW: 12.08 kDa (calculated). N-Terminal His-tag, 10 extra AA (highlighted).
Species	Human
Source	E.coli
Description	<p>Protein S100-A8 is a protein that in humans is encoded by the S100A8 gene. The protein encoded by this gene 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. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. This protein may function in the inhibition of casein kinase and as a cytokine. Altered expression of this protein is associated with the disease cystic fibrosis.</p>
Form	Filtered (0,4 µm) and lyophilized in 0.5 mg/mL in 20mM TRIS, 100mM NaCl, pH 7.5
Reconstitution	Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.
Applications	Western blotting
Quality Control Test	BCA to determine quantity of the protein; SDS PAGE to determine purity of the

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protein

Sequences of amino acids MKHHHHHHAS MLTELEKALN SIIDVYHKYS LIKGNFHAVY RDDLKKLEET
ECPQYIRKKG ADVWFKELDI NTDGAVNFQE FLILVIKMGV AAHKKSHEES HKE

Storage Store lyophilized protein at -20°C. Lyophilized protein remains stable until the expiry date when stored at -20°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after one week at 4°C.

GENE INFORMATION

Gene Name S100A8 S100 calcium binding protein A8 [Homo sapiens]

Official Symbol S100A8

Synonyms S100A8; S100 calcium binding protein A8; P8; MIF; NIF; CAGA; CFAG; CGLA; L1Ag; MRP8; CP-10; MA387; 60B8AG; protein S100-A8; MRP-8; calgranulin A; OTTHUMP00000015329; cystic fibrosis antigen; calprotectin L1L subunit; urinary stone protein band A; leukocyte L1 complex light chain; migration inhibitory factor-related protein 8; S100 calcium-binding protein A8 (calgranulin A); S100 calcium binding protein A8 (calgranulin A)

Gene ID 6279

mRNA Refseq NM_002964

Protein Refseq NP_002955

MIM 123885

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UniProt ID	P05109
Chromosome Location	1q12-q22
Function	calcium ion binding; protein binding

Protein S100A8 PDB
1mr8



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