Recombinant Human S100 Calcium Binding Protein A9, Cys3Ser Mutated

Cat. No. S100A9-433H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human S100 Calcium Binding Protein A9 cloned from human cDNA, was expressed in*E.coli*. The protein consists of the human S100A9 (residues 1-114) with a mutation at position 3: Cys3Ser. MW = 13.2 kDa.
Species	Human
Source	E.coli
ProteinLength	1-114 a.a.
Description	Protein S100-A9 is a protein that in humans is encoded by the S100A9 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 altered expression of this protein is associated with the disease cystic fibrosis.
Purity	> 95% by SDS-PAGE. The protein was observed as a single band migrating at a molecular weight of (<20 kDa).
Supplied As	0.5 mg at 1 mg/ml in Tris-HCl 10mM, NaCl 100mM pH 7.5 CaCl2 1mM. The concentration is calculated from the absorbance at 280nm (e280 = 6990$M^{-1}cm^{-1}$).

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Characteristics	Under the above described conditions, to avoid precipitation or protein dimerization, the product can be concentrated to a maximum 1mM.
Storage	-20º C. The protein is stable at 4 ºC for at least 3 days and at 25 ºC for at least several hours. After initial defrost, aliquot product into individual tubes and refreeze at -20º C. Avoid repeated freeze/defrost cycles.

GENE INFORMATION

Gene Name	S100A9 S100 calcium binding protein A9 [Homo sapiens]
Synonyms	S100A9; S100 calcium binding protein A9; MIF; NIF; P14; CAGB; CFAG; CGLB; L1AG; LIAG;MRP14; 60B8AG; MAC387; S100A9; S100; MRP-14 calcium-binding protein A9 (calgranulin B); S100 calcium binding protein A9 (calgranulin B); calgranulin B; OTTHUMP00000015331; Calprotectin L1H subunit; Leukocyte L1 complex heavy chain
Gene ID	6280
mRNA Refseq	NM_002965
Protein Refseq	NP_002956
MIM	123886
UniProt ID	P06702
Chromosome Location	1q21
Function	calcium ion binding; protein binding; signal transducer activity

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PDB rendering based on 1irj.

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