Recombinant Mouse S100a8, His-tagged

Cat. No. S100a8-3545M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse S100A8 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Mouse
Source	E.coli
Description	S100A8, also known MRP8, is a member of the S100 family, EF-hand superfamily of calcium binding proteins. This protein is 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. It functions both intracellularly and extracellularly, where it binds to RAGE and CD36. Altered expression of this protein is associated with the disease cystic fibrosis.
Formulation	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 30% glycerol, 0.1M NaCl, 1mM DTT
Molecular weight	12.4 kDa (109aa), confirmed by MALDI-TOF
Purity	> 95% by SDS - PAGE
Concentration	1.0 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MPSELEKALS NLIDVYHNYS NIQGNHHALY KNDFKKMVTT ECPQFVQNIN IENLFRELDI NSDNAINFEE FLAMVIKVGV ASHKDSHKE

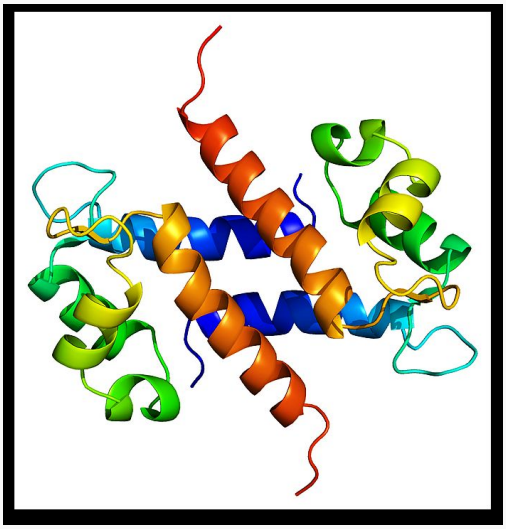
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Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	S100a8 S100 calcium binding protein A8 (calgranulin A) [Mus musculus]
Synonyms	S100a8; S100 calcium binding protein A8(calgranulinA); p8; B8Ag; CFAg; Caga; MRP8; CP-10; 60B8Ag; A1323541; protein S100-A8;MRP-8; calqranulin-A; chemotactic cytokine CP-10; pro-inflammatory S100 cytokine; leukocyte L1 complex light chain; migration inhibitory factor-related protein 8
Gene ID	20201
mRNA Refseq	NM_013650
Protein Refseq	NP_038678
UniProt ID	P27005
Chromosome Location	3 F1-F2; 3 43.6 cM
Function	calcium ion binding

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PDB rendering based on 1mr8.	

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