

Recombinant Mouse S100 Calcium Binding Protein A8 (calgranulin A), His-tagged

Cat. No. S100a8-5107M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouseS100a8 protein, fused to His-tag at N-terminus, was expressed in E. coli andpurified by using conventional chromatography.
Species	Mouse
Source	Mouse
Description	S100a8, also knownMRP8, is a member of the S100 family, EF-hand superfamily of calcium bindingproteins. This protein is localized in the cytoplasm and/or nucleus of a widerange of cells, and involved in the regulation of a number of cellularprocesses such as cell cycle progression and differentiation. It functionsboth intracellularly and extracellularly, where it binds to RAGE and CD36.Altered expression of this protein is associated with the disease cysticfibrosis.
Concentration	1 mg/ml
Form	Suppliedas a liquid in 20mM Tris-HCl buffer, pH 8.0, containing 30% glycerol, 0.1MNaCl and 1mM DTT.
Purity	> 95% by SDS -PAGE
Sequence	1-89 amino acids:MGSSHHHHHH SSGLVPRGSH MPSELEKALS NLIDVYHNYS NIQGNHHALY KNDFKKMVT ECPQFVQNININLFRDLI NSDNAINFEE FLAMVIKVG V ASHKDSHKE

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Molecular Mass	12.4 kDa(109aa), confirmed by MALDI-TOF.
Applications	SDS-PAGE
Storage	Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or -70 deg C for long term storage. Avoid repeated freeze/thaw cycles.
Official Symbol	S100a8
GENE INFORMATION	
Gene Name	S100a8 S100 calcium binding protein A8 (calgranulin A) [Mus musculus]
Synonyms	S100a8; S100 calcium binding protein A8 (calgranulin A); p8; B8Ag; CFAg; Caga; MRP8; CP-10; 60B8Ag; AI323541; protein S100-A8; MRP-8; calgranulin-A; chemotactic S100 protein; chemotactic cytokine CP-10; pro-inflammatory S100 cytokine; S100 calcium-binding protein A8; leukocyte L1 complex light chain; migration inhibitory factor-related protein 8; Protein S100-A8; Calgranulin-A; Chemotactic cytokine CP-10; Leukocyte L1 complex light chain; Migration inhibitory factor-related protein 8; Pro-inflammatory S100 cytokine
Gene ID	20201
mRNA Refseq	NM_013650
Protein Refseq	NP_038678
UniProt ID	P27005
Chromosome Location	39.9 cM

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Function	calcium ion binding
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Protein S100A8 PDB
1mr8.



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