Recombinant Mouse S100 Calcium Binding Protein A1, His-tagged

Cat. No. S100a1-3549M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse S100A1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Mouse
Source	E.coli
Description	S100 calcium binding protein A1, also known as S100A, is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and 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. S100A1 is expressed by striated muscle, endothelium and chondrocytes. Intracellularly, S100A1 regulates cytosolic Ca levels, and is part of the Hsp70/Hsp90 mutlichaperone complex that protects against protein denaturation.
Purity	> 90% by SDS - PAGE
Formulation	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 0.1M NaCl.
Molecular Weight	12.6 kDa (114aa), confirmed by MALDI-TOF
Concentration	1mg/ml (determined by Bradford assay)

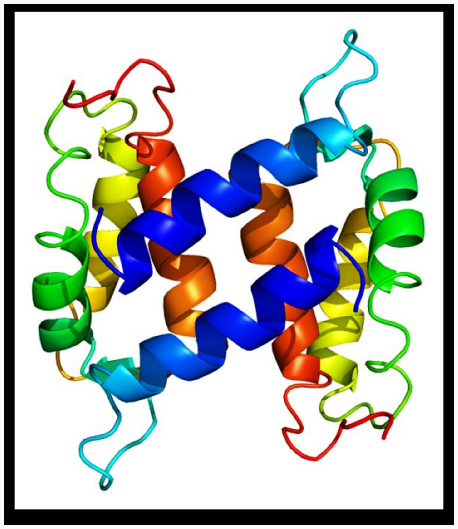
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Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MGSELESAME TLINVFHAHS GKEGDKYKLS KKELKDLLQT ELSGFLDVQK DADAVDKVMK ELDENGDGEV DFKEYVVLVA ALTVACNNFF WETS
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	S100a1 S100 calcium binding protein A1 [Mus musculus]
Synonyms	AI266795; OTTMUSP00000024891; OTTMUSP00000024892; protein S100-A1; S100; S100 alpha; S100 calcium binding protein; S100 calcium binding protein A1; S-100 protein alpha chain; S-100 protein subunit alpha; S100 protein, alpha polypeptide; S100A; S100a; S100a1; S100-alpha
Gene ID	20193
mRNA Refseq	NM_011309
Protein Refseq	NP_035439
Chromosome Location	3 F1-F2; 3 43.6 cM
Function	ATPase binding; calcium ion binding; identical protein binding; metal ion binding; protein binding; protein homodimerization activity; S100 alpha binding; S100 beta binding

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