Recombinant Mouse S100a6, His-tagged

Cat. No. S100a6-3552M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse S100a6protein, fused to His-tag at N-terminus, was expressed in E. coli andpurified by using conventional chromatography techniques.
Species	Mouse
Source	Mouse
Description	S100calcium binding protein A6 (S100a6) belongsto the S100 family. S100 family is containing 2 EF-hand calcium-binding motifs.S100 proteins regulate a number of cellular processes such as cell cycle progressionsand differentiation. S100a6 plays a role inthe reorganization of the actin cytoskeleton and in cell mobility. This is a specifictarget of S-100B protein in vivo. The binding of S100a6 to S100B is stabilized by S100B-bound calcium and zinc.It associates with both Annexin XI and CacyBP (Calcyclin-binding protein). Itfunctions to activate several processes along the calcium signal transductionpathway including the regulation of cell growth, proliferation, secretion andexocytosis.
Form	Liquid. In 20mMTris-HCl buffer (pH 8.0) containing 1mM DTT ,30% glycerol, 100mM NaCl.
Molecular Weight	12.2 kDa(109 aa), confirmed by MALDI-TOF.
Purity	> 95%by SDS - PAGE
Concentration	0.5 mg/ml(determined by Bradford assay)

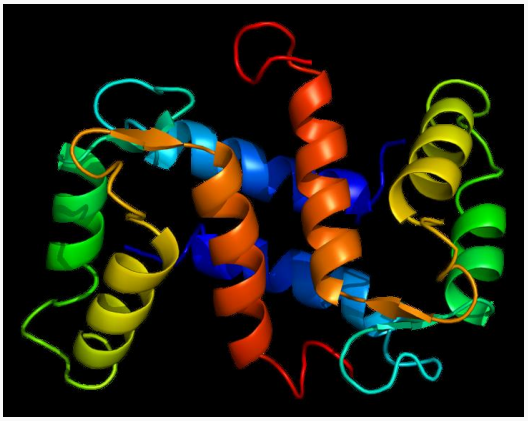
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Sequences of aminoacids	MGSSHHHHHHSSGLVPRGSH MACPLDQAIG LLVAIFHKYS GKEGDKHTLS KKELKELIQKELTIGSKLQD AEIARLMDDL DRNKDQEVNF QEYVAFLGAL ALIYNEALK
Storage	Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	S100a6 S100 calcium bindingprotein A6 (calcyclin) [Mus musculus]
Official Symbol	S100a6
Synonyms	S100a6; S100 calcium binding protein A6(calcyclin); 2A9; PRA; 5B10; Cacy; CALCYCLIN; protein S100-A6; S100calcium-binding protein A6; prolactin receptor-associated protein; calciumbinding protein A6 (calcyclin)
Gene ID	20200
mRNA Refseq	NM_011313
Protein Refseq	NP_035443
UniProt ID	P14069
Chromosome Location	3 F1-F2; 3 43.6 cM
Pathway	Prostaglandin Synthesis and Regulation
Function	S100 beta binding; calcium ion binding;calcium-dependent protein binding; ion

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	transmembrane transporter activity;metal ion binding; protein binding; protein homodimerization activity;tropomyosin binding; zinc ion binding
PDB rendering based on 1a03.	

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