

Recombinant Mouse S100a6, His-tagged

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

SPECIFICATION

Product Overview	Recombinant mouse S100a6 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Mouse
Source	Mouse
Description	S100 calcium binding protein A6 (S100a6) belongs to 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 progression and differentiation. S100a6 plays a role in the reorganization of the actin cytoskeleton and in cell mobility. This is a specific target 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). It functions to activate several processes along the calcium signal transduction pathway including the regulation of cell growth, proliferation, secretion and exocytosis.
Form	Liquid. In 20mM Tris-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

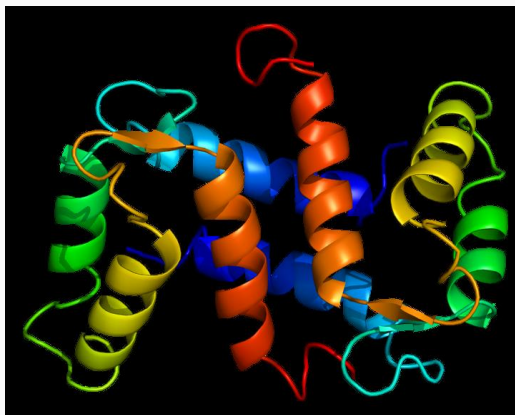
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transmembrane transporter activity;metal ion binding; protein binding; protein homodimerization activity;tropomyosin binding; zinc ion binding

PDB rendering based
on 1a03.



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