

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 <i>E. coli</i> 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)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Sequences of aminoacids	MGSSHHHHHSSGLVPRGSH 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) [<i>Mus musculus</i>]
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

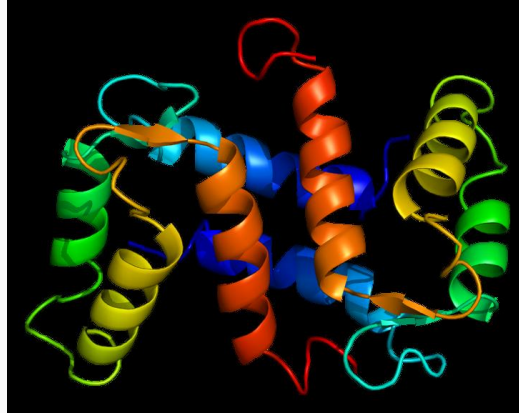
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transmembrane transporter activity;metal ion binding; protein binding; protein homodimerization activity;tropomyosin binding; zinc ion binding

PDB rendering based
on 1a03.



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