

Recombinant Mouse S100 calcium Binding Protein A6 (calcyclin), His-tagged

Cat. No. S100a6-5106M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouseS100a6 protein, fused to His-tag at N-terminus, was expressed in E. coli andpurified by using conventional chromatography techniques.
Species	Mouse
Source	Mouse
Description	S100a6 belongs tothe S100 family. S100 family contains 2 EF-hand calcium-binding motifs. S100proteins regulate a number of cellular processes such as cell cycleprogressions and differentiation. S100a6 plays a role in the reorganizationof the actin cytoskeleton and in cell mobility. This is a specific target ofS-100B protein in vivo. The binding of S100a6 to S100B is stabilized byS100B-bound calcium and zinc. It associates with both Annexin XI and CacyBP(Calcyclin-binding protein). It functions to activate several processes alongthe calcium signal transduction pathway including the regulation of cellgrowth, proliferation, secretion and exocytosis.
Concentration	0.5 mg/ml
Form	Suppliedas a liquid in 20mM Tris-HCl buffer, pH 8.0, containing 1mM DTT, 30% glyceroland 100mM NaCl.
Purity	> 95% by SDS -PAGE
Sequence	1-89 amino acids:MGSSHHHHHH SSGLVPRGSH MACPLDQAIG LLVAIFHKYS

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	GKEGDKHTLS KKELKELIQK ELTIGSKLQDAEIARLMDDL DRNKDQEVNF QEYVAFLGAL ALIYNEALK
Molecular Mass	12.2 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	S100a6
Pathways	Prostaglandin Synthesis and Regulation

GENE INFORMATION

Gene Name	S100a6S100 calcium binding protein A6 (calcyclin) [Mus musculus]
Synonyms	S100a6; S100 calcium binding protein A6 (calcyclin); 2A9; PRA;5B10; Cacy; CALCYCLIN; protein S100-A6; S100 calcium-binding protein A6; prolactin receptor-associated protein; calcium binding protein A6 (calcyclin); Protein S100-A6; Calcyclin; Prolactin receptor-associated protein; S100calcium-binding protein A6
Gene ID	20200
mRNA Refseq	NM_011313
Protein Refseq	NP_035443
UniProt ID	P14069

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Chromosome Location	39.35 cM
Function	S100 beta binding; calciumion binding; calcium-dependent protein binding; ion transmembrane transporteractivity; metal ion binding; protein binding; protein homodimerization activity;tropomyosin binding; zinc ion binding
Protein S100A6 PDB 1a03.	