

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 SSSLVPRGSH 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 [S100a6](#) [S100 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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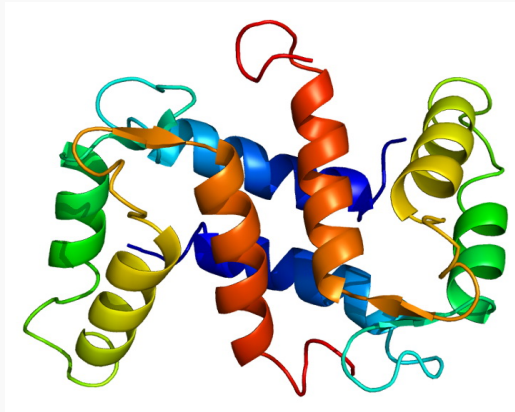
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Chromosome Location 39.35 cM

Function S100 beta binding; calcium ion binding; calcium-dependent protein binding; ion transmembrane transporter activity; metal ion binding; protein binding; protein homodimerization activity; tropomyosin binding; zinc ion binding

Protein S100A6 PDB 1a03.



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