

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

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant mouseS100a6 protein, fused to His-tag at N-terminus, was expressed in E. coli andpurified by using conventional chromatography techniques.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | 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. |
| <b>Concentration</b>    | 0.5 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Form</b>             | Suppliedas a liquid in 20mM Tris-HCl buffer, pH 8.0, containing 1mM DTT, 30% glyceroland 100mM NaCl.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>           | > 95% by SDS -PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Sequence</b>         | 1-89 amino acids:MGSSHHHHHH SSGLVPRGSH MACPLDQAIG LLVAIFHKYS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

|                        |                                                                                                                                                            |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | GKEGDKHTLS KKELKELIQK ELTIGSKLQDAEIARLMDDL DRNKDQEVNF<br>QEYVAFLGAL ALIYNEALK                                                                              |
| <b>Molecular Mass</b>  | 12.2 kDa(109aa), confirmed by MALDI-TOF.                                                                                                                   |
| <b>Applications</b>    | SDS-PAGE                                                                                                                                                   |
| <b>Storage</b>         | 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. |
| <b>Official Symbol</b> | S100a6                                                                                                                                                     |
| <b>Pathways</b>        | Prostaglandin Synthesis and Regulation                                                                                                                     |

## GENE INFORMATION

|                       |                                                                                                                                                                                                                                                                                                                         |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>      | S100a6S100 calcium binding protein A6 (calcyclin) [ Mus musculus ]                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>       | 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 |
| <b>Gene ID</b>        | 20200                                                                                                                                                                                                                                                                                                                   |
| <b>mRNA Refseq</b>    | NM_011313                                                                                                                                                                                                                                                                                                               |
| <b>Protein Refseq</b> | NP_035443                                                                                                                                                                                                                                                                                                               |
| <b>UniProt ID</b>     | 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.

