

## Recombinant Mouse S100 Calcium Binding Protein A6 (Calcyclin)

**Cat. No.** S100a6-4566M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	S100A6 also called Calcyclin has been purified by HPLC (see Kuznicki et al. (1989) Biochem. J. 263: 951-956).
<b>Source</b>	Mouse
<b>Description</b>	S100A6 is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized either in the cytoplasm or the nucleus of a wide range of cells. S100 proteins are involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. There are at least 13 members in the S100 gene family, which are located as a cluster on chromosome 1q21. S100A6 may function in stimulation of Ca <sup>2+</sup> -dependent insulin release, stimulation of prolactin secretion, and exocytosis. Chromosomal rearrangements and altered expression of the S100A6 gene are implicated in melanoma.
<b>Form</b>	The protein was lyophilized from a concentrated solution (1mg/ml) containing no additives.
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Physical Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Solubility</b>	It is recommended to reconstitute the lyophilized Mouse S100A6 in sterile 18M $\mu$ -cm H <sub>2</sub> O not less than 100g/ml, which can then be further diluted to other aqueous

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solutions.

**Storage**

Lyophilized Mouse S100A6 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Mouse S100A6 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

## GENE INFORMATION

**Gene Name**

S100a6 S100 calcium binding protein A6 (calcyclin) [ *Mus musculus* ]

**Official Symbol**

S100a6

**Synonyms**

S100a6; S100 calcium binding protein A6 (calcyclin); 2A9; PRA; 5B10; Cacy; CALCYCLIN; protein S100-A6; S100 calcium-binding protein A6prolactin receptor; - associated protein; calcium binding protein A6 (calcyclin)

**Gene ID**

20200

**mRNA Refseq**

NM\_011313

**Protein Refseq**

NP\_035443

**UniProt ID**

P14069

**Chromosome Location**

43.6 cM

**Pathway**

Prostaglandin Synthesis and Regulation

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**Function**

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

**PDBrendering based  
on 1a03.**

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