

# Recombinant Rhesus Macaque S100 Calcium Binding Protein B

**Cat. No.** S100B-5482R    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Rhesus macaque S100 calcium binding protein B is a single, non-glycosylated polypeptide chain containing 92 amino acids.
<b>Species</b>	Rhesus macaque
<b>Source</b>	E.coli
<b>Description</b>	S100B is glial-specific and is expressed primarily by astrocytes. Not all astrocytes express S100B. It has been shown that S100B is only expressed by a subtype of mature astrocytes that ensheath blood vessels and by NG2-expressing cells. This protein may function in neurite extension, proliferation of melanoma cells, stimulation of Ca <sup>2+</sup> fluxes, inhibition of PKC-mediated phosphorylation, astrocytosis and axonal proliferation, and inhibition of microtubule assembly. In the developing CNS, it acts as a neurotrophic factor and neuronal survival protein.
<b>Form</b>	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.
<b>Purity</b>	>97% by SDS-PAGE and HPLC analyses
<b>Endotoxin Level</b>	<0.1 ng/μg of protein.
<b>Amino Acid Sequence</b>	MSELEKAMVALIDVFHQYSG REGDKHKLKK SELKELINNE LSHFLEEIKEQEVVDKVMETLDSGDGECDFQEFMAFVAM VTTACHEFFE HE

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<b>Molecular Weight</b>	10.7 kDa
<b>Reconstitution</b>	Centrifuge vial prior to opening. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be divided into working aliquots and stored at -80°C. Further dilutions should be made in appropriate buffered solutions.
<b>Storage</b>	The lyophilized protein is stable at 2-4°C, but should be kept desiccated at -20°C for long term storage. After reconstitution, the protein is stable for 1 week at 2-4°C. For long term storage, aliquot and freeze at -80°C. Avoid repeated freeze-thaw cycles.
<b>Official Symbol</b>	S100B

## GENE INFORMATION

<b>Gene Name</b>	S100B S100 calcium binding protein B [ <i>Macaca mulatta</i> ]
<b>Synonyms</b>	S100B; S100 calcium binding protein B
<b>Gene ID</b>	<a href="#">708117</a>
<b>mRNA Refseq</b>	<a href="#">XM_001098016</a>
<b>Protein Refseq</b>	<a href="#">XP_001098016</a>
<b>UniProt ID</b>	<a href="#">F7ANQ9</a>
<b>PDB rendering based on 1b4c.</b>	

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