

## S100B

### Recombinant Rhesus Macaque S100B

<b>Catalog No.</b>	CRS163A	<b>Quantity:</b>	2 µg
	CRS163B		10 µg
	CRS163C		1.0 mg

**Alternate Names:** S100 calcium binding protein B

**Description:** Recombinant Rhesus macaque S100 calcium binding protein B is a single, non-glycosylated polypeptide chain containing 92 amino acids. 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>++</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.

**Gene ID:** 708117

**Source:** *E. coli*

**Molecular Weight:** 10.7 kDa

**Formulation:** Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.

**Purity:** >97% by SDS-PAGE and HPLC analyses

**Endotoxin Level:** < 0.1 ng/µg of protein.

**Amino Acid Sequence:** MSELEKAMVA LIDVFHQYSG REGDKHKLKK SELKELINNE LSHFLEEIKE QEVVDKVMET LDSDGDGECDFQEFMAFVAM VTTACHEFFE HE

**Reconstitution:** **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.

**Storage & Stability:** 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.**

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