

S100B

Recombinant Rhesus Macaque S100B

Catalog No.	CRS163A	Quantity:	2 µg
	CRS163B		10 µg
	CRS163C		1.0 mg

Alternate Names: S100 calcium binding protein B

Description: Recombinant Rhesus Macaque S100B is a single non-glycosylated polypeptide chain containing 91 amino acids
 Background: 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 Ca²⁺ 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: ~10.6 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: Less than 1EU/µg of rRhS100B as determined by LAL method.

Biological Activity: Data Not Available.

Amino Acid Sequence: SELEKAMVAL IDVFHQYSGR EGDKHKLKKS ELKELINNEL SHFLEEIKEQ
 EVVDKVMETL DSDGDGECDF QEFMAFVAMV TTACHEFFEHE E

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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