

Recombinant Rhesus Macaque S100 Calcium Binding Protein B

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

SPECIFICATION

Product Overview	Recombinant Rhesusmacaque S100 calcium binding protein B is a single, non-glycosylatedpolypeptide chain containing 92 amino acids.
Species	Rhesus macaque
Source	E.coli
Description	S100B isglial-specific and is expressed primarily by astrocytes. Not all astrocytes expressS100B. It has been shown that S100B is only expressed by a subtype of mature astrocytesthat ensheath blood vessels and by NG2-expressing cells. This protein mayfunction in neurite extension,proliferation of melanoma cells, stimulation ofCa ²⁺ fluxes,inhibition of PKC-mediatedphosphorylation,astrocytosis and axonal proliferation, and inhibition ofmicrotubule assembly. In the developing CNS, it acts as a neurotrophic factorand neuronal survival protein.
Form	Lyophilized from a0.2µm filtered concentrated solution in PBS, pH 7.4.
Purity	>97%by SDS-PAGEand HPLC analyses
Endotoxin Level	<0.1 ng/µg ofprotein.
Amino Acid Sequence	MSELEKAMVALIDVFHQYSG REGDKHKLKK SELKELINNE LSHFLEEIKEQEVVDKVMETLSDGDGECDFQEFMAFVAM VTTACHEFFE HE

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Molecular Weight	10.7 kDa
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	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.
Official Symbol	S100B
GENE INFORMATION	
Gene Name	S100B S100 calcium binding protein B [Macaca mulatta]
Synonyms	S100B; S100 calcium binding protein B
Gene ID	708117
mRNA Refseq	XM_001098016
Protein Refseq	XP_001098016
UniProt ID	F7ANQ9
PDB rendering based on 1b4c.	

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