

Recombinant Rhesus S100B protein

Cat. No. S100B-544R Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Rhesus S100B protein was expressed in Escherichia coli.
Species	Rhesus macaque
Source	E.coli
ProteinLength	91
Description	S100B belongs to the S100 family, which containing 2 EF-hand calcium-binding motifs. In humans, S100B protein is encoded by the S100P gene located at 4q16, but genes that encode other numbers of s100 family proteins are almost located at 1q21 as a cluster. 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 ²⁺ 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.
Form	Lyophilized from a 0.2µm filtered solution in PBS, pH 7.4.
Molecular Mass	Approximately 10.6 kDa, a single non-glycosylated polypeptide chain containing 91 amino acids
AA Sequence	SELEKAMVALIDVFHQYSGREGDKHKLKSELKELINNELSHFLEEIKEQEVVDKVM

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TLDSGDGGECDQEFMAFVAMVTTACHEFFEHE

Endotoxin Less than 1 EU/μg of rRhS100B as determined by LAL method.

Purity >97% by SDS-PAGE and HPLC analysis.

Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.

Reconstitution We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. 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 apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name S100B

Official Symbol S100B

Synonyms Protein S100-P, Migration-inducing gene 9 protein, MIG9, Protein S100-E, S100 calcium-binding protein P

Gene ID 708117

mRNA Refseq NM_001260526.1

Protein Refseq NP_001247455.1

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UniProt ID

F7ANQ9

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