

Recombinant Rhesus Macaque

S100 Calcium Binding Protein B

#R00213

Size:10 µg/100 µg/500 µg

Stability & Storage

- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.

- 1 month, 2 to 8 °C under sterile conditions after reconstitution.

- 3 months, -20 to -70 °C under sterile conditions after reconstitution.



Warning:

This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

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 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.

AA Sequence

SELEKAMVALIDVFHQYSGREGDKHKLKKSELKELIN

NELSHFLEEIKEQEVDKVMETLDSGDGECDFQEF

MAFVAMVTTACHEFFEHE

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 °C. Further dilutions should be made in appropriate buffered solutions.

Product Specification

Synonyms	Protein S100-P, Migration-inducing gene 9 protein, MIG9, Protein S100-E, S100 calcium-binding protein P
Accession	F7ANQ9
GeneID	708117
Species	Rhesus
Source	Escherichia coli.
Molecular Weight	Approximately 10.6 kDa, a single non-glycosylated polypeptide chain containing 91 amino acids
Purity	> 97 % by SDS-PAGE and HPLC analyses.
Biological Activity	Data Not Available.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	Lyophilized from a 0.2 µm

filtered solution in PBS, pH 7.4.

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