

Recombinant Rhesus Macaque S100 Calcium Binding Protein B (Rhesus Macaque S100B)

Product Information

Product Name	Cat#	Size
	92532ES10	10 µg
Recombinant Rhesus Macaque S100 Calcium Binding Protein B (Rhesus Macaque S100B)	92532ES60	100 µg
	92532ES76	500 µg

Product 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 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.

Product Properties

Synonyms	Migration-inducing gene 9 protein, MIG9, Protein S100-E, AI850290 Protein, Bpb Protein
Accession	F7ANQ9
GeneID	708117
Source	E.coli-derived rhesus Macaque S100 Calcium Binding Protein B,Ser2-Glu92
Molecular Weight	Approximately 10.6 kDa.
AA Sequence	SELEKAMVAL IDVFHQYSGR EGDKHKLKKS ELKELINNEL SHFLEEIQE EVVDKVMETL DSDGDGECDF QEFMAFVAMV TTACHEFFEH E
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 97 % by SDS-PAGE and HPLC analyses.
Biological Activity	Data Not Available.
Endotoxin	< 1.0 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS, pH 7.4. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
Reconstitution	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.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only!