

Recombinant Mouse S100b Protein, Myc/DDK-tagged

Cat. No. S100b-5673M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length S100 protein, beta polypeptide, neural (S100b), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Weakly binds calcium but binds zinc very tightly-distinct binding sites with different affinities exist for both ions on each monomer. Physiological concentrations of potassium ion antagonize the binding of both divalent cations, especially affecting high-affinity calcium-binding sites. Binds to and initiates the activation of STK38 by releasing autoinhibitory intramolecular interactions within the kinase. Interaction with AGER after myocardial infarction may play a role in myocyte apoptosis by activating ERK1/2 and p53/TP53 signaling. Could assist ATAD3A cytoplasmic processing, preventing aggregation and favoring mitochondrial localization. May mediate calcium-dependent regulation on many physiological processes by interacting with other proteins, such as TPR-containing proteins, and modulating their activity.
Molecular Mass	10.7 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	S100b S100 protein, beta polypeptide, neural [Mus musculus (house mouse)]
Official Symbol	S100b
Synonyms	S100B; S100 protein, beta polypeptide, neural; protein S100-B; S-100 protein beta chain; S-100 protein subunit beta; S100 calcium-binding protein B; Bpb; AI850290; MGC74317
Gene ID	20203
mRNA Refseq	NM_009115
Protein Refseq	NP_033141
UniProt ID	P50114

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