

Recombinant Mouse S100b Protein, His-tagged

Cat. No. S100b-7332M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse S100B protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Mouse
Source	E.coli
ProteinLength	1-92
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.
Form	Liquid
Molecular Mass	12.8 kDa
AA Sequence	MGSSHHHHHHSSGLVPRGSHMSELEKAMVALIDVFHQYSGREGDKHKLKSELKE

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LINNELSHFLEEIKEQEVDKVMETLDEDGDGECDFQEFMAFVAMVTTACHEFFEHE

Purity > 85 % by SDS-PAGE

Stability Shelf life: one year from despatch.

Storage Store undiluted at 2-8 centigrade for up to two weeks or (in aliquots) at -20 or -70 centigrade for longer.
Avoid repeated freezing and thawing.

Concentration 1.0 mg/mL (determined by Bradford assay)

Storage Buffer 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 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; Bpb; A1850290; protein S100-B; S-100 protein beta chain; S-100 protein subunit beta; S100 calcium-binding protein B

Gene ID 20203

mRNA Refseq NM_009115

Protein Refseq NP_033141

UniProt ID P50114

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