

Recombinant Mouse S100b, His-tagged

Cat. No. S100b-2571M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant mouse S100B protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 12.8 kDa (112aa).
Species	Mouse
Source	E.coli
Description	S100B is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. This protein 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.
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MSELEKAMVA LIDVFHQYSG REGDKHKLKK SELKELINNE LSHFLEEIKE QEVVDKVMET LDEDGDGECDFQEFMAFVAM VTTACHEFFE HE
Purity	> 85% by SDS – PAGE.
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 10% glycerol.
Concentration	1 mg/ml (determined by Bradford assay).

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Storage Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name S100b S100 protein, beta polypeptide, neural [*Mus musculus*]

Synonyms S100b; S100 protein, beta polypeptide, neural; Bpb; AI850290; MGC74317; protein S100-B; OTTMUSP00000021974; 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

Chromosome Location 10 C1; 10 41.0 cM

Function calcium ion binding; metal ion binding; receptor binding

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