

# Recombinant mouse S100B protein

Catalog Number: ATGP0608

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-92aa

### UniProt No.

P50114

### NCBI Accession No.

NP\_033141

### Alternative Names

S100 calcium binding protein B, S100 protein beta polypeptide neural, S-100 protein beta chain, S-100 protein subunit beta

## PRODUCT SPECIFICATION

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### Molecular Weight

12.8 kDa (112aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

### Purity

> 85% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### 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,

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proliferation of melanoma cells, stimulation of Ca<sup>2+</sup> fluxes, inhibition of PKC-mediated phosphorylation, astrocytosis and axonal proliferation, and inhibition of microtubule assembly. Recombinant mouse S100B protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

### Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MSELEKAMVA LIDVFHQYSG REGDKHKLKK SELKELINNE LSHFLEEIKE QEVVDKVMET  
LDEDGDGEDC FQEFMAFVAM VTTACHEFFE HE

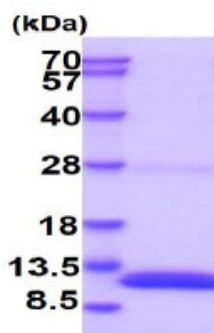
### General References

Tubaro C., et al. (2010) J Cell Physiol. 223(1):270-82.

Shin EJ., et al. (2009) J Neurosci Res. 87(16):3679-86.

## DATA

### SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.