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## **Recombinant mouse S100B protein**

Catalog Number: ATGP0608

#### PRODUCT INFORMATION

#### **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**

## **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**

## **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 Ca2+ 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**

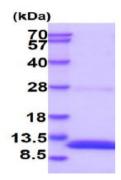
MGSSHHHHHH SSGLVPRGSH MSELEKAMVA LIDVFHQYSG REGDKHKLKK SELKELINNE LSHFLEEIKE QEVVDKVMET LDEDGDGECD FQEFMAFVAM VTTACHEFFE HE

#### **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.

