

# **Product datasheet for AR09545PU-N**

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OriGene Technologies, Inc.

## S100B (1-92, His-tag) Mouse Protein

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** S100B (1-92, His-tag) mouse recombinant protein, 0.1 mg

Species: Mouse Expression Host: E. coli

Expression cDNA Clone MGSSHHHHHH SSGLVPRGSH MSELEKAMVA LIDVFHQYSG REGDKHKLKK SELKELINNE

or AA Sequence: LSHFLEEIKE QEVVDKVMET LDEDGDGECD FQEFMAFVAM VTTACHEFFE HE

Tag: His-tag
Predicted MW: 12.8 kDa
Concentration: lot specific

Purity: >85% by SDS - PAGE

**Buffer:** Presentation State: Purified

State: Liquid purified protein

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 10% glycerol

**Preparation:** Liquid purified protein

**Protein Description:** Recombinant mouse S100B protein, fused to His-tag at N-terminus, was expressed in E.coli

and purified by using conventional chromatography techniques.

Storage: Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

**Stability:** Shelf life: one year from despatch.

**RefSeq:** NP 033141

**Locus ID:** 20203

 UniProt ID:
 P50114, Q3UY00

Cytogenetics: 10 38.76 cM Synonyms: Al850290; Bpb

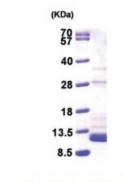




#### **Summary:**

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 calciumbinding 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 (By similarity).[UniProtKB/Swiss-Prot Function]

# **Product images:**



15% SDS-PAGE (3ug)