
Product Data Sheet

Product Name: S100b Mouse, His
 Cat. No.: GP24480
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Protein S100-B; S-100 protein beta chain; S-100 protein subunit beta; S100 calcium-binding protein B; Bpb; AI850290; MGC74317; S100b.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MSELEKAMVA LIDVFHQYSG REGDKHKLKK SELKELINNE LSHFLEEIKE QEVVDKVMET LDEDGDGECDFQEFMAFVAM VTTACHEFFE HE.		
Formulation	S100B Mouse solution containing 20mM Tris-HCl pH-8, 1mM DTT & 10% glycerol.		

Introduction

S100B faintly binds calcium but binds zinc extremely strongly-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. S100B binds to and initiates the activation of STK38 by releasing autoinhibitory intramolecular interactions within the kinase. Interaction with AGER after myocardial infarction participates in myocyte apoptosis by activating ERK1/2 and p53/TP53 signaling.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

S100B Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 92 amino acids (1-112 a.a.) and having a molecular mass of 12.8 kDa. The Mouse S100B is fused to a 20 amino acid His-Tag at N-terminus and purified by

Caution: Product has not been fully validated for medical applications. For research use only.

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proprietary chromatographic techniques.

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