www.neobiolab.com
info@neobiolab.com
888.754.5670, +1 617.500.7103 United States
0800.088.5164, +44 020.8123.1558 United Kingdom

S100b Mouse

Catalog #:PRPS-860

For research use only.

Description: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 proprietary chromatographic techniques.

Synonyms: Protein S100-B, S-100 protein beta chain, S-100 protein subunit beta, S100 calcium-binding protein B, Bpb, AI850290, MGC74317, S100b.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MSELEKAMVA LIDVFHQYSG REGDKHKLKK SELKELINNE LSHFLEEIKE QEVVDKVMET LDEDGDGECD FQEFMAFVAM VTTACHEFFE HE.

Purity: Greater than 85.0% as determined by SDS-PAGE.

Formulation:
S100B Mouse solution containing 20mM Tris-HCl pH-8, 1mM DTT & 10% glycerol.

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.

Usage:
NeoBiolab's products are furnished forLABORATORY RESEARCHUSEONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

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.

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