

## S100A5 Mouse

**Description:** S100A5 Mouse Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 117 amino acids (1-93) and having a molecular mass of 13.4kDa. The S100A5 is fused to a 24 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-1091

For research use only.

**Synonyms:** Protein S100-A5, Protein S-100D, S100 calcium-binding protein A5, S100a5, S100d, S100D9.

**Source:** Escherichia Coli.

**Physical Appearance:** S100A9 is supplied as a sterile filtered clear solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGSHMETPLE KALTTMTTF  
HKYSGREGSK LTLSRKELKE LIKTELSLAE KMKESSIDNL MKSLDKNSDQ EIDFKEYSVF  
LTTLCMAYND FFLEDNK.

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

**Formulation:**

S100A5 protein (1mg/ml) is supplied in 20mM Tris-HCl buffer, pH8.0, 40% glycerol, 3mM DTT and 200mM NaCl.

**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 for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

S100 calcium binding protein A5 (S100A5) belongs to the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 family members are localized in the cytoplasm and/or nucleus of a wide range of cells, and are involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100A5 has a Ca<sup>2+</sup> affinity 20-100 fold higher than the other S100 proteins investigated under identical conditions. Furthermore, S100A5 protein binds Zn<sup>2+</sup> and Cu<sup>2+</sup>, and Cu<sup>2+</sup> strongly which harms the binding of Ca<sup>2+</sup>. S100A5 is expressed in very limited regions of the adult brain.

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