

## S100A1 Mouse

**Description:** S100A1 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 114 amino acids (1-94 a.a) and having a molecular mass of 12.6kDa (molecular weight on SDS-PAGE will appear higher). S100A1 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-244

For research use only.

**Synonyms:** Protein S100-A1, S-100 protein alpha chain, S-100 protein subunit alpha, S100 calcium-binding protein A1, S100a1, S100, S100a, A1266795.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered clear solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGSELESAME TLINVFHAHS  
GKEGDYKLS KKELKDLLQT ELSGFLDVQK DADAVDKVMK ELDENGDEGEV DFKEYVVLVA  
ALTVACNNFF WETS.

**Purity:** Greater than 90.0% as determined by SDS-PAGE.

**Formulation:**

S100A1 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 30% glycerol and 0.1M NaCl.

**Stability:**

S100A1 Mouse Recombinant although stable at 4°C for 1 week, should be stored below -18°C. Please prevent 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:**

S100A1 is a member of the S100 family of calcium binding proteins with EF-hand type Ca<sup>2+</sup> binding motive. S100A1 (Calcium Binding Protein A1) is involved in the activation of sarcoplasmic calcium release and the regulation of intermediate filament polymerization. S100A1 may function in stimulation of Ca<sup>2+</sup>-induced Ca<sup>2+</sup> release, inhibition of microtubule assembly, and inhibition of protein kinase C-mediated phosphorylation. Reduced expression of S100A1 has been implicated in cardiomyopathies. S100 proteins are localized either in the cytoplasm or the nucleus of a wide range of cells. There are at least 13 members in the S100 gene family, which are located as a cluster on chromosome 1q21.

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