9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

# S100A1 Mouse

*S100 Calcium Binding Protein A1 Mouse Recombinant*
*RCP1947*

## Product Overview

| | |
|---|---|
| Name | S100A1 Mouse |
| **Description** | |
| S100 Calcium Binding Protein A1 Mouse Recombinant | |
| Accession (Primary) | P56565 |
| **Synonyms** | |
| Protein S100-A1, S-100 protein alpha chain, S-100 protein subunit alpha, S100 calcium-binding protein A1, S100a1, S100, S100a, AI266795. | |
| **Introduction** | |
| S100A1 is a member of the S100 family of calcium binding proteins with EF-hand type Ca+2 binding motive. S100A1 (Calcium Binding Protein A1) is involved in the activation of sarcoplasmatic calcium release and the regulation of intermediate filament polymerization. S100A1 may function in stimulation of Ca2+-induced Ca2+ 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. | |
| **Source** | |
| Escherichia Coli. | |
| **Physical Appearance** | |
| Sterile Filtered clear solution. | |
| **Formulation** | |
| S100A1 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 30% glycerol and 0.1M 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. | |
| **Purity** | |
| Greater than 90.0% as determined by SDS-PAGE. | |
| **Amino acid sequence** | |
| MGSSHHHHHH SSGLVPRGSH MGSELESAME TLINVFHAHS GKEGDKYKLS KKELKDLLQT ELSGFLDVQK | |

9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

DADAVDKVMK ELDENGDGEV DFKEYVVLVA ALTVACNNFF WETS.

**Precautions**

S100A1 Mouse is for research use only and not for use in diagnostic or therapeutic procedures.

## Target Information: ( P56565 )