

## S100A2 Human

**Description:** S100A2 Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 117 amino acids (1-97 a.a.) and having a molecular mass of 13.1kDa. The S100A2 is purified by proprietary chromatographic techniques.

Catalog #: PRPS-153

For research use only.

**Synonyms:** Protein S100-A2, CAN19, Protein S-100L, S100 calcium-binding protein A2, S100A2, S100L, MGC111539.

**Source:** Escherichia Coli.

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

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MCSSLEQALA VLVTTFFHKYS  
CQEGDKFKLS KGEMKELLHK ELPSFVGEKV DEEGLKLLMG SLDENSQQV DFQEYAVFLA  
LITVMCNDFF QGCPDRP.

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

### Formulation:

The S100A2 solution (1 mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 5mM DTT, 30% glycerol and 0.2M NaCl.

### Stability:

S100A2 should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). 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:

S100A2 belongs to the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100A2 may function as a modulator against excess calcium accumulation in normal human mammary epithelial cells and also have a role in suppressing tumor cell growth. S100A2 may have a tumor suppressor function. 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. Chromosomal rearrangements and altered expression of the S100A2 gene are implicated in breast cancer.

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