

## S100A16 Human

**Description:** S100A16 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 123 amino acids (1-103 a.a.) and having a molecular mass of 13.9kDa. S100A16 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-162

For research use only.

**Synonyms:** Protein S100-A16, Aging-associated gene 13 protein, Protein S100-F, S100 calcium-binding protein A16, S100A16, S100F, AAG13, DT1P1A7, MGC17528.

**Source:** Escherichia Coli.

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

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MSDCYTELEK AVIVLVENFY  
KYVSKYSLVK NKISKSSFRE MLQKELNHML SDTGNRKAAD KLIQNLDANH DGRISFDEYW  
TLIGGITGPI AKLIHEQEQQ SSS.

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

**Formulation:**

S100A16 (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 40% glycerol and 0.2M 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:**

S100A16 belongs to the S100 protein super family containing calcium-binding EF-hand motifs. S100 proteins are cell and tissue specific and are engaged in various intra and extracellular processes through interacting with specific target proteins. The S100A16 expression is astrocyte-specific. S100A16 accumulates within nucleoli and translocates to the cytoplasm in reaction to Ca(2+) stimulation. S100A16 physically interacts with tumor suppressor protein p53 (which is a known inhibitor of adipogenesis) as determined Immunoprecipitation analysis.

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