

## S100A14 Human

**Description:** S100A14 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 124 amino acids (1-104 a.a.) and having a molecular mass of 13.8kDa. The S100A14 is purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-161

For research use only.

**Synonyms:** Protein S100-A14, S100 calcium-binding protein A14, S114, S100A14, S100A15, BCMP84.

**Source:** Escherichia Coli.

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

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGQCRSANA E DAQEFSDVER  
AIETLIKNFH QYSVEGGKET LTPSELRLDV TQQLPHLMPS NCGLEEKIAN LGSCNDSKLE  
FRSFWE LIGE AAKSVKLERP VRGH.

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

**Formulation:**

The S100A14 solution (1 mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 2mM DTT.

**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:**

S100A14 belongs to a subfamily of proteins related by EF-hand Ca<sup>2+</sup> binding protein superfamily. The extracellular functions of the S100 family include the ability to boost neurite outgrowth, involvement in inflammation, and motility of tumor cells. S100A14 contains 2 EF-hand Ca<sup>2+</sup>-binding domains, a myristoylation motif, a glycosylation site, and a number of potential protein kinase phosphorylation sites. S100A14 is expressed at high levels in the colon and at moderate levels in the thymus, kidney, liver, small intestine, and lung.

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