

Product information

S100A1, 1-94 aa

Mouse, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1089

Full name: S100 calcium binding protein A1

NCBI Accession No.: NP_035439

Synonyms: S100, S100a

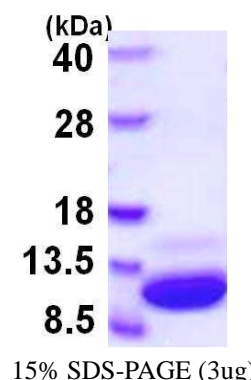
Description: S100 calcium binding protein A1, also known as S100A, is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100A1 is expressed by striated muscle, endothelium and chondrocytes. Intracellularly, S100A1 regulates cytosolic Ca levels, and is part of the Hsp70/Hsp90 chaperone complex that protects against protein denaturation. Recombinant mouse S100A1 protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 0.1M NaCl

Molecular Weight: 12.6 kDa (114aa), confirmed by MALDI-TOF

Purity: > 90% by SDS - PAGE

Concentration: 1 mg/ml (determined by Bradford assay)



Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MGSELESAME TLINVFHAHS GKEGDKYKLS KKEKDLLQT ELSGFLDVQK DADAVDKVMK ELDENGDEGV
DFKEYVVLVA ALTVACNNFF WETS

General references:

Heizmann C W., *et al.* (1988) *J Cardiovasc Pharmacol.* 5:30-37.

Kagi U., *et al.* (1988) *Cell Tissue Res.* 252:359-365.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



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