

Recombinant mouse S100A1 protein

Catalog Number: ATGP1089

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-94aa

UniProt No.

P56565

NCBI Accession No.

NP_035439

Alternative Names

S100 calcium binding protein A1, S100, S100a

PRODUCT SPECIFICATION

Molecular Weight

12.6 kDa (114aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

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

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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 mutlichaperone complex that protects against protein denaturation. Recombinant mouse S100A1 protein, fused to His-tag at N-terminus, was expressed in E.

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coli and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MGSELESAME TLINVFHAHS GKEGDKYKLS KKEKDLLQT ELSGFLDVQK
DADAVDKVMK ELDENG DGEV DFKEYVVLVA ALTVACNNFF WETS

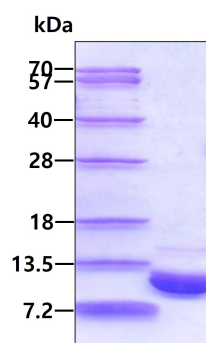
General References

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

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

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.