

Recombinant human S100A16 protein

Catalog Number: ATGP1018

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-103aa

UniProt No.

Q96FQ6

NCBI Accession No.

NP_525127

Alternative Names

S100 calcium binding protein A16, AAG13, S100F

PRODUCT SPECIFICATION

Molecular Weight

13.9 kDa (123aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 40% glycerol, 0.2M NaCl

Purity

> 95% 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 A16, also known S100A16, 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. Intracellularly, S100A16 is both nuclear and cytoplasmic and apparently exists as a homodimer, trimer and tetramer. It contains two EF-hand motifs with only one high-affinity Ca-binding site and apparently undergoes phosphorylation at Ser103. Recombinant human S100A16 protein, fused to His-tag at N-terminus,

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was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MSDCYTELEK AVIVLVENFY KYVSKYSLVK NKISKSSFRE MLQKELNHML SDTGNRKAAD
KLIQNLDANH DGRISFDEYW TLIGGITGPI AKLIHEQEQQ SSS

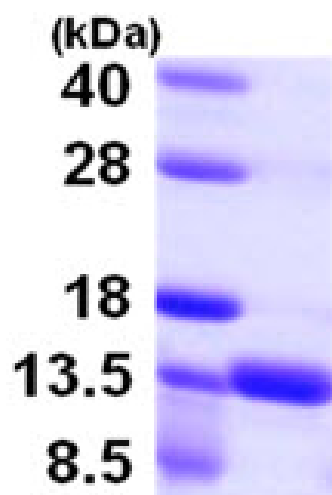
General References

Marenholz I., et al. (2004) Biochem Biophys Res Commun. 313(2):237-44.

Sturchler E., et al. (2006) J Biol Chem. 281(50):38905-17.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)