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# Recombinant human S100A16 protein

Catalog Number: ATGP1018

# **PRODUCT INFORMATION**

# **Expression system**

E.coli

#### **Domain**

1-103aa

#### **UniProt No.**

096F06

#### **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**

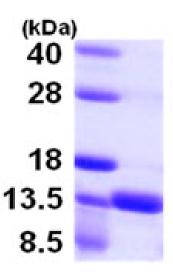
MGSSHHHHHH SSGLVPRGSH MSDCYTELEK AVIVLVENFY KYVSKYSLVK NKISKSSFRE MLQKELNHML SDTGNRKAAD KLIQNLDANH DGRISFDEYW TLIGGITGPI AKLIHEQEQQ SSS

#### **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**



15% SDS-PAGE (3ug)

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

