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# Recombinant human S100A5 protein

Catalog Number: ATGP0957

# PRODUCT INFORMATION

# **Expression system**

E.coli

## **Domain**

1-92aa

# **UniProt No.**

P33763

#### **NCBI Accession No.**

NP 002953

#### **Alternative Names**

S100 calcium binding protein A5, S100D

# **PRODUCT SPECIFICATION**

# **Molecular Weight**

12.9 kDa (112aa) 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, 0.1mM PMSF

#### **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 A5, also known as S100A5, 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. S100A5 has a Ca2+ affinity 20- to 100-fold higher than the other S100 proteins studied under identical conditions. This protein also binds Zn2+ and Cu2+, and Cu2+ strongly which impairs the binding of Ca2+. S100A5 is expressed in very restricted regions of the adult brain. Recombinant human S100A5 protein,



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fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

# **Amino acid Sequence**

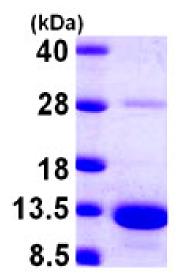
MGSSHHHHHH SSGLVPRGSH METPLEKALT TMVTTFHKYS GREGSKLTLS RKELKELIKK ELCLGEMKES SIDDLMKSLD KNSDQEIDFK EYSVFLTMLC MAYNDFFLED NK

## **General References**

Schafer BW., et al. (1996) Trends Biochem Sci. 21(4):134-40. Schafer BW., et al. (2000) J Biol Chem. 275(39):30623-30

# **DATA**

## **SDS-PAGE**



15% SDS-PAGE (3ug)

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

