# Recombinant mouse S100A5 protein

Catalog Number: ATGP1510

## PRODUCT INFORMATION

**Expression system**
E.coli

**Domain**
1-93aa

**UniProt No.**
P63084

**NCBI Accession No.**
NP_035442

**Alternative Names**
S100 calcium binding protein A5, S100D9

## PRODUCT SPECIFICATION

**Molecular Weight**
13.4 kDa (117aa) confirmed by MALDI-TOF

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

**Formulation**
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 40% glycerol, 3mM DTT, 200mM 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 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+. It is expressed in very restricted regions of the adult brain. Recombinant mouse S100A5 protein, fused to

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

**Amino acid Sequence**

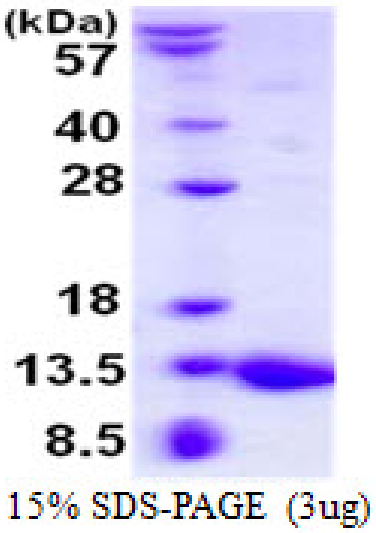
MGSSHHHHHH SSGLVPRGSH MGSHMETPLE KALTTMVTTF HKYSGREGSK LTLSRKELKE LIKTELSLAE KMKESSIDNL MKSLDKNSDQ EIDFKEYSVF LTTLCMAYND FFLEDNK

**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.