

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 MGSHEMTPLE KALTTMVTTF HKYSGREGSK LTLRRELKE LIKTELSLAE KMKESSIDNL
MKSLDKNSDQ EIDFKEYSVF LTTLCMAYND FFLEDNK

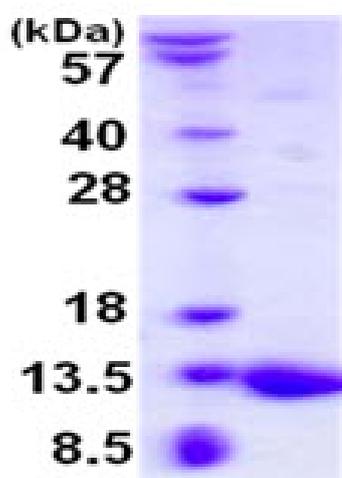
General References

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.