

AR09897PU-L

Human S100A5 (1-92, His-tag) - Purified

Alternate names:

Protein S-100D, Protein S100-A5, S100 calcium-binding protein A5, S100D

Quantity:

0.5 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

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 Ca^{2+} affinity 20- to 100-fold higher than the other S100 proteins studied under identical conditions. This protein also binds Zn^{2+} and Cu^{2+} , and Cu^{2+} strongly which impairs the binding of Ca^{2+} . S100A5 is expressed in very restricted regions of the adult brain.

Uniprot ID:

[P33763](#)

NCBI:

[NP_002953](#)

GeneID:

[6276](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90%

Buffer System: 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 0.1M NaCl, 0.1mM PMSF

Description:

Recombinant human S100A5 protien, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHHH SSGLVPRGSH METPLEKALT TMVTFHKYS GREGSKLTLS RKELKELIKK
ELCLGEMKES SDDLKMSLD KNSDQEIDFK EYSVFLTMLC MAYNDFFLED NK

Molecular weight: 12.9 kDa (112aa) confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

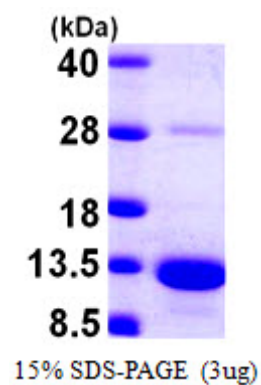
Shelf life: one year from despatch.

General Readings:

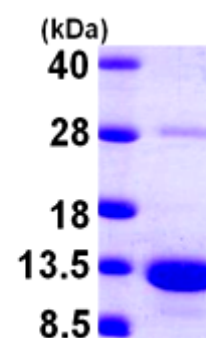
Schafer BW., et al. (2000) J Biol Chem. 275(39):30623-30.

Pictures:

Recombinant human S100A5, 1-92 aa,
His-tagged



15% SDS-PAGE (3ug)



15% SDS-PAGE (3ug)