

Product information

S100A5, 1-93aa

Mouse, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1510

Full name: S100 calcium binding protein A5

NCBI Accession No.: NP_035442

Synonyms: S100D9

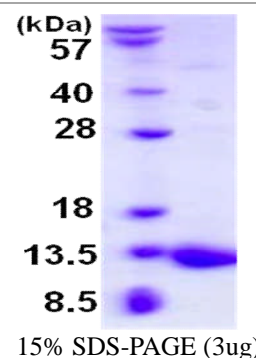
Description: S100 calcium binding protein A5, also known as S100A5, is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes 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 His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

Form: Liquid. In 20 mM Tris-HCl buffer, pH8.0, 40% glycerol, 3mM DTT, 200mM NaCl

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

Purity: > 95% by SDS - PAGE

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



Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH MGSHMETPLE KALTTMTTF HKYSGREGSK LTLRKELKE 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.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.