

Recombinant Mouse S100 Calcium Binding Protein A5, His-tagged

Cat. No. S100a5-5588M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse S100a5 protein, fused to His-tag at N-terminus, was expressed in <i>E. coli</i> and purified by using conventional chromatography techniques.
Species	Mouse
Source	<i>E. coli</i>
Description	S100 calcium binding protein A5, also known as S100a5, is a member of the S100 family of proteins containing 2EF-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⁺ . It is expressed in very restricted regions of the adult brain.
Form	Liquid. In 20 mM Tris-HCl buffer, pH 8.0, 40% glycerol, 3mM DTT, 200mM NaCl.
Molecular Weight	13.4kDa(117aa), confirmed by MALDI-TOF.
Purity	> 95% by SDS-PAGE
Concentration	1 mg/ml (determined by Bradford assay)

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Sequences of aminoacids MGSSHHHHHSSGLVPRGSH MGSHPMETPLE KALTTMVTTF HKYSGREGSK
LTLRKELKE LIKTELSLAEKMKESSIDNL MKSLDKNSDQ EIDFKEYSVF
LTTLCMAYND FFLEDNK

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

GENE INFORMATION

Gene Name [S100a5](#) [S100 calcium bindingprotein A5 \[Mus musculus \]](#)

Official Symbol [S100a5](#)

Synonyms S100a5; S100 calcium binding protein A5;S100D9; protein S100-A5; Protein S-100D; S100 calcium-binding protein A5

Gene ID [20199](#)

mRNA Refseq [NM_011312](#)

Protein Refseq [NP_035442](#)

UniProt ID [P63084](#)

Chromosome Location 3 F1-F2; 3 43.6 cM

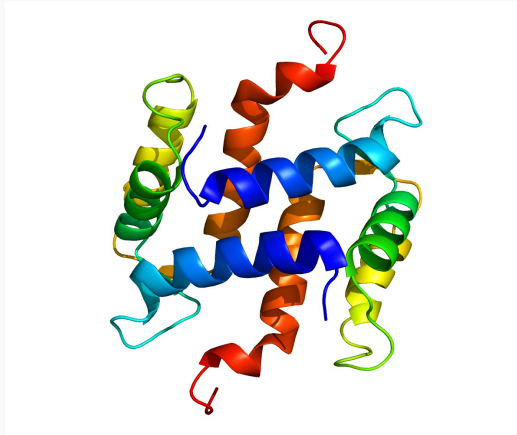
Function calcium ion binding; copper ion binding;metal ion binding; protein homodimerization activity; zinc ion binding

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Rendering based on
PDB 2KAX.



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