

Recombinant Mouse S100a5, His-tagged

Cat. No. S100a5-15850M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse S100A5 protein, fused to His tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Mouse
Source	E.coli
ProteinLength	1-93aa
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 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, pH8.0, 40% glycerol, 3mM DTT, 200mM NaCl
Molecular Mass	13.4kDa (117aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSHEMETPLE KALTTMTTF HKYSGREGSK LTLRKELKE LIKTELSLAE KMKESSIDNL MKSLDKNSDQ EIDFKEYSVF LTTLCMAYND FFLEDNK

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Purity	>95% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4°C short term. For long term storage, aliquot and store at at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	S100a5 S100 calcium binding protein A5 [Mus musculus]
Official Symbol	S100A5
Synonyms	S100A5; S100 calcium binding protein A5; protein S100-A5; S100 calcium-binding protein A5; S100D9;
Gene ID	20199
mRNA Refseq	NM_011312
Protein Refseq	NP_035442
Function	calcium ion binding; copper ion binding; metal ion binding; protein homodimerization activity; zinc ion binding;