

## Recombinant Mouse S100a5, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant mouse S100A5 protein, fused to His tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-93aa
<b>Description</b>	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 <sup>2+</sup> affinity 20- to 100-fold higher than the other S100 proteins studied under identical conditions. This protein also binds Zn <sup>2+</sup> and Cu <sup>2+</sup> , and Cu <sup>2+</sup> strongly which impairs the binding of Ca <sup>2+</sup> . It is expressed in very restricted regions of the adult brain.
<b>Form</b>	Liquid. In 20 mM Tris-HCl buffer, pH8.0, 40% glycerol, 3mM DTT, 200mM NaCl
<b>Molecular Mass</b>	13.4kDa (117aa), confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSHMETPLE KALTTMVTTF HKYSGREGSK LTLRKELKE LIKTELSLAE KMKESSIDNL MKSLDKNSDQ EIDFKEYSVF LTTLCMAYND FFLEDNK

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Purity</b>	>95% by SDS - PAGE
<b>Applications</b>	SDS-PAGE
<b>Storage</b>	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.
<b>Concentration</b>	1mg/ml (determined by Bradford assay)
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	S100a5 S100 calcium binding protein A5 [ Mus musculus ]
<b>Official Symbol</b>	S100A5
<b>Synonyms</b>	S100A5; S100 calcium binding protein A5; protein S100-A5; S100 calcium-binding protein A5; S100D9;
<b>Gene ID</b>	20199
<b>mRNA Refseq</b>	NM_011312
<b>Protein Refseq</b>	NP_035442
<b>Function</b>	calcium ion binding; copper ion binding; metal ion binding; protein homodimerization activity; zinc ion binding;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA