

**AR50334PU-N****Mouse S100A5 (1-93, His-tag) - Purified**

<b>Alternate names:</b>	Protein S-100D, Protein S100-A5, S100 calcium-binding protein A5, S100D
<b>Quantity:</b>	0.5 mg
<b>Concentration:</b>	1mg/ml (determined by Bradford assay)
<b>Background:</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>Uniprot ID:</b>	<a href="#">P63084</a>
<b>NCBI:</b>	<a href="#">NP_035442.1</a>
<b>GeneID:</b>	<a href="#">20199</a>
<b>Species:</b>	Mouse
<b>Source:</b>	E. coli
<b>Format:</b>	<b>State:</b> Liquid purified protein <b>Purity:</b> >95% by SDS - PAGE <b>Buffer System:</b> 20 mM Tris-HCl buffer, pH8.0, 40% glycerol, 3mM DTT, 200mM NaCl
<b>Description:</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>AA Sequence:</b> MGSSHHHHHH SGLVPRGSH MGSMMETPLE KALTTMVTTF HKYSGREGSK LTLRSKELKE LIKTELSLAE KMKESSIDNL MKSLDKNSDQ EIDFKEYSVF LTTLCMAYND FFLEDNK <b>Molecular weight:</b> 13.4 kDa (117aa), confirmed by MALDI-TOF
<b>Storage:</b>	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	Schafer BW., et al. (1996) Trends Biochem Sci. 21(4):134-40. Schafer BW., et al. (2000) J Biol Chem. 275(39):30623-30.

Pictures:

