

## OriGene Technologies, Inc.

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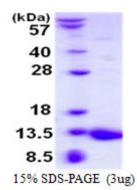
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## AR50334PU-N Mouse S100A5 (1-93, His-tag) - Purified

Alternate names:	Protein S-100D, Protein S100-A5, S100 calcium-binding protein A5, S100D
Quantity:	0.5 mg
Concentration:	1mg/ml (determined by Bradford assay)
Background:	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.
Uniprot ID:	<u>P63084</u>
NCBI:	<u>NP_035442.1</u>
GenelD:	20199
Species:	Mouse
Source:	E. coli
Format:	<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
Description:	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 SSGLVPRGSH MGSHMETPLE KALTTMVTTF HKYSGREGSK LTLSRKELKE LIKTELSLAE KMKESSIDNL MKSLDKNSDQ EIDFKEYSVF LTTLCMAYND FFLEDNK <b>Molecular weight:</b> 13.4 kDa (117aa), confirmed by MALDI-TOF
Storage:	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.
General Readings:	Schafer BW., et al. (1996) Trends Biochem Sci. 21(4):134-40. Schafer BW., et al. (2000) J Biol Chem. 275(39):30623-30.

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