

## Recombinant Human S100A5, His-tagged

Cat. No. S100A5-3415H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human S100A5 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	E.coli
<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> . S100A5 is expressed in very restricted regions of the adult brain.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 0.1M NaCl, 0.1mM PMSF.
<b>Molecular Weight</b>	12.9 kDa (112aa) confirmed by MALDI-TOF.
<b>Purity</b>	> 90% by SDS - PAGE.
<b>Concentration</b>	1 mg/ml (determined by Bradford assay).

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**Sequences Of Amino Acids** MGSSHHHHHH SSGLVPRGSH METPLEKALT TMVTTFFHKYS GREGSKLTLS RKE LKELIKK ELCLGEMKES SIDDLMKSLD KNSDQEIDFKEYSVFLTMLC MAY NDF FLED NK.

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

## GENE INFORMATION

**Gene Name** [S100A5 S100 calcium binding protein A5 \[ Homo sapiens \]](#)

**Synonyms** S100A5; S100 calcium binding protein A5; S100D; S100A5; Protein S-100D; S100 calcium-binding protein A5; Protein S-100D

**Gene ID** [6276](#)

**mRNA Refseq** [NM\\_002962](#)

**Protein Refseq** [NP\\_002953](#)

**MIM** [176991](#)

**UniProt ID** [P33763](#)

**Chromosome Location** 1q21

**Function** calcium ion binding

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