

Recombinant Human S100A5, His-tagged

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

SPECIFICATION

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

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Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH METPLEKALT TMVTTFHKYS 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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