

# Recombinant Human S100A10, His-tagged

**Cat. No.** S100A10-434H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Product Overview</b> | Recombinant human S100A10 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>ProteinLength</b>    | 1-97aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | The protein encoded by this gene is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or 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. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. This protein may function in exocytosis and endocytosis. |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 40% glycerol, 0.1M NaCl, 0.1mM PMSF                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | 13.3 kDa (117aa) confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MPSQMEHAME TMMFTFHKFA GDKGYLTKE<br>LRVLMEKEFP GFLENQKDPL AVDKIMKDLD QCRDGKVGFSFFSLIAGLT<br>IACNDYFVVH MKQKGKK                                                                                                                                                                                                                                                                                                                                                    |

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| <b>Purity</b>           | > 90% by SDS - PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Storage</b>          | 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.                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Concentration</b>    | 1 mg/ml (determined by Bradford assay)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Gene Name</b>        | S100A10 S100 calcium binding protein A10 [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Official Symbol</b>  | S100A10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Synonyms</b>         | S100A10; S100 calcium binding protein A10; 42C; P11; p10; GP11; ANX2L; CAL1L; CLP11; Ca[1]; ANX2LG; MGC111133; OTTHUMP00000015270; annexin II ligand, calpactin I, light polypeptide; S100 calcium binding protein A10 (annexin II ligand, calpactin I, light polypeptide (p11)); S100 alcium-binding protein A10 (annexin II ligand, calpactin I, light polypeptide (p11)); Protein S100-A10; S100 calcium-binding protein A10; Calpactin-1 light chain; Calpactin I light chain; p10 protein; Cellular ligand of annexin II; OTTHUMP00000015269; p11 |
| <b>Gene ID</b>          | 6281                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>mRNA Refseq</b>      | NM_002966                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Protein Refseq</b>   | NP_002957                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>MIM</b>              | 114085                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>UniProt ID</b>       | P60903                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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|----------------------------|---------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 1q21                                                                                        |
| <b>Pathway</b>             | Dissolution of Fibrin Clot; Orphan transporters; Transmembrane transport of small molecules |
| <b>Function</b>            | calcium ion binding; ion channel binding; protein homodimerization activity                 |

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