

# Recombinant Full Length Human S100 Calcium Binding Protein A9, His-tagged

**Cat. No.** S100A9-2369H    **Lot. No.** (See product label)

## SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Product Overview</b>   | Recombinant human S100A9 protein, fused to His-tag at C-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. 14.3 kDa (122aa).                                                                                                                                                                                                                                                                                        |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>             | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Length</b>     | 1-114 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>        | S100-A9, also known as Calgranulin B, belongs to the S100 family containing EF-hand type Ca <sup>2+</sup> -binding proteins. It is involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation, and associated with the disease cystic fibrosis. S100A9 has been implicated in the abnormal differentiation of myeloid cells in the stroma of cancer. This protein may function in the inhibition of casein kinase. |
| <b>Form</b>               | Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.1M NaCl.                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>             | > 90% by SDS - PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Concentration</b>      | 1.0 mg/ml (determined by Bradford assay).                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Sequences Of Amino</b> | MTCKMSQLER NIETIINTFH QYSVKLGHPD TLNQGEFKEL VRKDLQNFLK KENK                                                                                                                                                                                                                                                                                                                                                                                                             |

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Acids</b>               | NEKVIE HIMEDLDTNA DKQLSFEEFI MLMARLTWASHEKMHEGDEG PGHHHK<br>PGLG EGTPLEHHHH HH.                                                                                                                                                                                                                                             |
| <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>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                                                                                             |
| <b>Gene Name</b>           | <a href="#">S100A9</a> <a href="#">S100 calcium binding protein A9 [ Homo sapiens ]</a>                                                                                                                                                                                                                                     |
| <b>Synonyms</b>            | S100A9; S100 calcium binding protein A9; MIF; NIF; P14; CAGB; CFAG; CGLB; L1AG; LIAG;MRP14; 60B8AG; MAC387; S100A9; S100; MRP-14 calcium-binding protein A9 (calgranulin B); S100 calcium binding protein A9 (calgranulin B); calgranulin B; OTTHUMP00000015331; Calprotectin L1H subunit; Leukocyte L1 complex heavy chain |
| <b>Gene ID</b>             | <a href="#">6280</a>                                                                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>         | <a href="#">NM_002965</a>                                                                                                                                                                                                                                                                                                   |
| <b>Protein Refseq</b>      | <a href="#">NP_002956</a>                                                                                                                                                                                                                                                                                                   |
| <b>MIM</b>                 | <a href="#">123886</a>                                                                                                                                                                                                                                                                                                      |
| <b>UniProt ID</b>          | P06702                                                                                                                                                                                                                                                                                                                      |
| <b>Chromosome Location</b> | 1q21                                                                                                                                                                                                                                                                                                                        |
| <b>Function</b>            | calcium ion binding; protein binding; signal transducer activity                                                                                                                                                                                                                                                            |