

# Recombinant Human Calprotectin(S10A8/S10A9) Protein, His-tagged

**Cat. No.** Calprotectin-01H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human Calprotectin(S10A8/S10A9) is expressed from E. coli with a His Tag the C-terminal. It contains Met1-Glu93/Thr2-Pro114.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | Met1-Glu93/Thr2-Pro114                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | Calprotectin, a member of the widespread calcium-binding S-100 protein family, is present in remarkably high concentration in the cytoplasm of human neutrophils. The calprotectin molecule is composed of light (MRP8) and heavy (MRP14) subunits. Although not secreted from intact neutrophils, calprotectin release from dead and dying neutrophils creates high concentrations of the protein in inflammatory or abscess fluids and in the intestinal tract lumen of patients with inflammatory bowel disease. Calprotectin is also found in reactive tissue macrophages, in nonkeratinizing squamous epithelia, and in reactive epidermal cells. |
| <b>Form</b>             | Supplied as 0.22um filtered solution in in 2mM DTT, PBS, pH 7.2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Endotoxin</b>        | Less than 1 EU per ug by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Purity</b>           | > 95% as determined by Bis-Tris PAGE. > 95% as determined by HPLC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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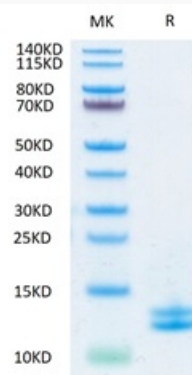
 45-1 Ramsey Road, Shirley, NY 11967, USA

**Storage** The product should be stored at -70°C. Please do not repeated freeze-thaw cycles.

## GENE INFORMATION

|                        |                                                                  |
|------------------------|------------------------------------------------------------------|
| <b>Gene Name</b>       | S100A8 S100 calcium binding protein A8 [ Homo sapiens (human) ]  |
| <b>Official Symbol</b> | S100A8                                                           |
| <b>Synonyms</b>        | P8; MIF; NIF; CAGA; CFAG; CGLA; L1Ag; MRP8; CP-10; MA387; 60B8AG |
| <b>Gene ID</b>         | 6279                                                             |
| <b>mRNA Refseq</b>     | NM_001319196.1                                                   |
| <b>Protein Refseq</b>  | NP_001306125.1                                                   |
| <b>MIM</b>             | 123885                                                           |
| <b>UniProt ID</b>      | P05109                                                           |

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Calprotectin-01H**



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**SEC-HPLC of  
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