

# Recombinant Human CR1 Protein, His-tagged

**Cat. No.** CR1-507H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human CR1(Ile1780~Pro2039) fused with His tag at N-terminal was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | Ile1780~Pro2039                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | <p>This gene is a member of the receptors of complement activation (RCA) family and is located in the 'cluster RCA' region of chromosome 1. The gene encodes a monomeric single-pass type I membrane glycoprotein found on erythrocytes, leukocytes, glomerular podocytes, and splenic follicular dendritic cells. The Knops blood group system is a system of antigens located on this protein. The protein mediates cellular binding to particles and immune complexes that have activated complement.</p> <p>Decreases in expression of this protein and/or mutations in its gene have been associated with gallbladder carcinomas, mesangiocapillary glomerulonephritis, systemic lupus erythematosus and sarcoidosis. Mutations in this gene have also been associated with a reduction in Plasmodium falciparum rosetting, conferring protection against severe malaria. Alternate allele-specific splice variants, encoding different isoforms, have been characterized. Additional allele specific isoforms, including a secreted form, have been described but have not been fully characterized.</p> |
| <b>Form</b>             | 20mM Tris, 150mM NaCl,pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|                       |                                                                                                                                                                                                                                                                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | Trehalose and Proclin300.                                                                                                                                                                                                                                                                                                                    |
| <b>Molecular Mass</b> | Predicted Molecular Mass: 30.4kDa;<br>Accurate Molecular Mass: 32kDa(Analysis of differences refer to the manual).                                                                                                                                                                                                                           |
| <b>Endotoxin</b>      | <1.0EU per 1g (determined by the LAL method)                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>         | > 95%                                                                                                                                                                                                                                                                                                                                        |
| <b>Applications</b>   | Positive Control; Immunogen; SDS-PAGE; WB.<br>If bio-activity of the protein is needed, please check active protein.                                                                                                                                                                                                                         |
| <b>Stability</b>      | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Reconstitution</b> | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL.<br>Do not vortex.                                                                                                                                                                                                                                         |

## GENE INFORMATION

|                        |                                                                                  |
|------------------------|----------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CR1 complement component (3b/4b) receptor 1 (Knops blood group) [ Homo sapiens ] |
| <b>Official Symbol</b> | CR1                                                                              |
| <b>Synonyms</b>        | CR1; complement component (3b/4b) receptor 1 (Knops blood group); complement     |

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component (3b/4b) receptor 1, including Knops blood group system; complement receptor type 1; CD35; KN; CD35 antigen; C3b/C4b receptor; C3-binding protein; Knops blood group antigen; complement component receptor 1; C3BR; C4BR;

**Gene ID** [1378](#)

**mRNA Refseq** [NM\\_000573](#)

**Protein Refseq** [NP\\_000564](#)

**MIM** [120620](#)

**UniProt ID** [P17927](#)

