

## Recombinant Human CR1 therapeutic protein(Mirococept)

Cat. No. CR1-P016H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human complement receptor 1 therapeutic protein is a complement inhibitor currently under development for treatment of rheumatoid arthritis and I/R1. It consists of the first three short consensus domains of human complement receptor 1, manufactured in recombinant bacteria and modified with a membrane-targeting amphiphilic peptide based on the naturally occurring membrane-bound myristoyl-electrostatic switch peptide.
<b>Species</b>	Human
<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>Endotoxin</b>	< 1.0 EU per µg of the protein

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

**Purity** >98%

## GENE INFORMATION

**Gene Name** CR1 complement component (3b/4b) receptor 1 (Knops blood group) [ Homo sapiens ]

**Official Symbol** CR1

**Synonyms** CR1; complement component (3b/4b) receptor 1 (Knops blood group); complement 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

**Chromosome Location** 1q32

**Pathway** Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Complement cascade, organism-specific biosystem; Hematopoietic cell lineage, organism-specific biosystem;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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



Hematopoietic cell lineage, conserved biosystem; Immune System, organism-specific biosystem;

**Function**

complement component C3b binding; complement component C3b receptor activity; complement component C4b binding; complement component C4b receptor activity; receptor activity;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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