

Recombinant Human CR1 therapeutic protein(Mirococept)

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

SPECIFICATION

Product Overview

Recombinant Human complement receptor 1 therapeutic protein is a complement inhibitor currently under development for treatment of rheumatoid arthritis and I/R. 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.

Species Human

Description

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. 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.

Endotoxin < 1.0 EU per µg of the protein

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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;

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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;

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