

Recombinant Human C2

Cat. No. C2-26739TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human C2 with N terminal proprietary tag, 49kDa.
Species	Human
Source	E.coli
Description	Component C2 is a serum glycoprotein that functions as part of the classical pathway of the complement system. Activated C1 cleaves C2 into C2a and C2b. The serine proteinase C2a then combines with complement factor 4b to create the C3 or C5 convertase. Deficiency of C2 has been reported to associated with certain autoimmune diseases and SNPs in this gene have been associated with altered susceptibility to age-related macular degeneration. This gene localizes within the class III region of the MHC on the short arm of chromosome 6. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Additional transcript variants have been described in publications but their full-length sequence has not been determined.
Molecular Weight	49.000kDa
Form	Lyophilised: Add 200ul of distilled water.
Storage buffer	pH: 6.80 Constituents: 1.58% Tris HCl, 3.09% DTT, 4% SDS, 0.2% Bromophenol blue, 20% Sucrose
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze /

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thaw cycles.

Sequence Belongs to the peptidase S1 family.Contains 1 peptidase S1 domain.Contains 3 Sushi
Similarities (CCP/SCR) domains.Contains 1 VWFA domain.

GENE INFORMATION

Gene Name [C2 complement component 2 \[Homo sapiens \]](#)

Official Symbol [C2](#)

Synonyms C2; complement component 2; complement C2;

Gene ID [717](#)

mRNA Refseq [NM_000063](#)

Protein Refseq [NP_000054](#)

MIM [613927](#)

Uniprot ID [P06681](#)

**Chromosome
Location** 6p21.3

Pathway Activation of C3 and C5, organism-specific biosystem; Complement Activation, Classical Pathway, organism-specific biosystem; Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem;

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Function	peptidase activity; serine-type endopeptidase activity;
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