



# Human C2 peptide (DAG-P0267)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

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| <b>Antigen Description</b> | 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.[provided by RefSeq, Mar 2009] |
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| <b>Purity</b>       | 70 - 90% by HPLC.   |
| <b>Conjugate</b>    | Unconjugated  |
| <b>Format</b>       | Liquid  |
| <b>Preservative</b> | None  |
| <b>Storage</b>      | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request. |

## GENE INFORMATION

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| <b>Gene Name</b>       | <a href="#">C2 complement component 2 [ Homo sapiens (human) ]</a>                                 |
| <b>Official Symbol</b> | C2   |
| <b>Synonyms</b>        | C2; complement component 2; CO2; ARMD14; complement C2; C3/C5 convertase; complement component C2; |
| <b>Entrez Gene ID</b>  | <a href="#">717</a>  |

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| <b>mRNA Refseq</b>         | <a href="#">NM_000063.5</a>  |
| <b>Protein Refseq</b>      | <a href="#">NP_000054.2</a>  |
| <b>UniProt ID</b>          | P06681   |
| <b>Chromosome Location</b> | 6p21.3   |
| <b>Pathway</b>             | 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; Complement cascade, organism-specific biosystem; Immune System, organism-specific biosystem; Initial triggering of complement, organism-specific biosystem; Innate Immune System, organis |
| <b>Function</b>            | serine-type endopeptidase activity;  |