



## Human C4D (aa 957-1336) [His] (DAG1207PY)

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

### PRODUCT INFORMATION

<b>Species</b>	Human
<b>Purity</b>	>90% by SDS-PAGE.
<b>Conjugate</b>	His
<b>Applications</b>	SDS-PAGE
<b>Molecular Weight</b>	44 kDa including tags
<b>Format</b>	Liquid
<b>Concentration</b>	1 mg/ml
<b>Size</b>	50 µg
<b>Buffer</b>	pH: 8, 0.32% Tris HCl, Contains NaCl, KCl, EDTA, Sucrose and DTT.
<b>Preservative</b>	None
<b>Storage</b>	Store at -80°C
<b>Ship</b>	Shipped at 4°C.

### BACKGROUND

<b>Introduction</b>	This gene encodes the acidic form of complement factor 4, part of the classical activation pathway. The protein is expressed as a single chain precursor which is proteolytically cleaved into a trimer of alpha, beta, and gamma chains prior to secretion. The trimer provides a surface for interaction between the antigen-antibody complex and other complement components. The alpha chain is cleaved to release C4 anaphylatoxin, an antimicrobial peptide and a mediator of local inflammation. Deficiency of this protein is associated with systemic lupus erythematosus
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and type I diabetes mellitus. This gene localizes to the major histocompatibility complex (MHC) class III region on chromosome 6. Varying haplotypes of this gene cluster exist, such that individuals may have 1, 2, or 3 copies of this gene. Two transcript variants encoding different isoforms have been found for this gene.

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<b>Keywords</b>	C4D;complement component 4A (Rodgers blood group);C4; RG; C4S; CO4; C4A2; C4A3; C4A4; C4A6; C4AD; CPAMD2;complement C4-A;C3 and PZP-like alpha-2-macroglobulin domain-containing protein 2;C4A anaphylatoxin;Rodgers form of C4;acidic C4;acidic complement C4
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## GENE INFORMATION

Entrez Gene ID [720](#)

UniProt ID [P0C0L4](#)