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Product datasheet for AR05035PU-N

Complement C4c Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Complement C4c human protein, 1 mg
Species:	Human
Concentration:	lot specific
Purity:	>95% Affinity chromatography - SDS PAGE: >95%
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: Phosphate buffered saline
Preparation:	Liquid purified protein
Applications:	ELISA.
Protein Description:	Component C4 interacts with C1 and C2 to form C3 convertase of the classic activation pathway. C4c is the common form present in plasma and used in diagnostic assays.
Storage:	Store the protein at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001239133
Locus ID:	720
UniProt ID:	P0C0L4
Cytogenetics:	6p21.33
Synonyms:	C4; C4A2; C4A3; C4A4; C4A6; C4AD; C4S; CO4; CPAMD2; RG

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Summary: 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 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. [provided by RefSeq, Nov 2014]

Protein Pathways: Complement and coagulation cascades, Systemic lupus erythematosus