

Recombinant Human C4B protein, His-tagged

Cat. No. C4B-08H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human C4B protein, fused to His-tag, was expressed in E. coli.
Species	Human
Source	E.coli
Description	This gene encodes the basic form of complement factor 4, and together with the C4A gene, is 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 may be cleaved to release C4 anaphylatoxin, a mediator of local inflammation. Deficiency of this protein is associated with systemic lupus erythematosus. 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. In addition, this gene exists as a long form and a short form due to the presence or absence of a 6.4 kb endogenous HERV-K retrovirus in intron 9.
Form	50mM Tris-HCl, 300mM NaCl, 10% glycerol, 2mM DTT pH8.0.
Molecular Mass	36.3 kDa
AA Sequence	MASMTGGGQMGRGHHHHHHGNNLYFQGGEFEAPKVVEEQESRVHYTVCIWRNGK VGLSGMAIADVTLTLLSGFHALRADLEKLTSLSDRYVSHFETEGPHVLLYFDSVPTSRE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

CVGFQAVQEVPLVQPASATLYDYNNPERRCSVFYGAPSKSRLLATLCSAEVCQC
AEGKCPRQRRALERGLQDEDDGYRMKFACYYPVEYGFQVKVLREDSRAAFRLFET
KITQVLHFTKDVKAAANQMRNFLVRASCRLRLEPGKEYLIMGLDGATYDLEGHPQYL
LDSNSWIEEMPSERLCRSTRQRAACAQLNDFLQEYGTQGCQV

Purity 90%

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Concentration 0.651 mg/mL

GENE INFORMATION

Gene Name C4B complement C4B (Chido blood group) [Homo sapiens (human)]

Official Symbol C4B

Synonyms CH; C4F; CO4; C4B1; C4B2; C4B3; C4B5; C4BD; C4B12; C4B_2; CPAMD3

Gene ID 721

mRNA Refseq NM_001002029

Protein Refseq NP_001002029

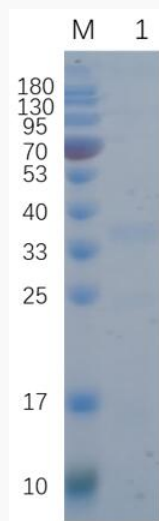
MIM 120820

UniProt ID P0C0L5

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SDS-PAGE

Reducing 12% SDS-PAGE analysis profile of purified C4 (CBB stained).

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