

Recombinant Human C4B Protein, His-tagged

Cat. No. C4B-343H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human C4B Protein (Leu958-Gly1335) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Leu958-Gly1335
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	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 44 kDa

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	Accurate Molecular Mass: 44 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	C4B complement C4B (Chido blood group) [Homo sapiens (human)]
Official Symbol	C4B
Synonyms	C4B; complement C4B (Chido blood group); CH; C4F; CO4; C4B1; C4B2; C4B3; C4B5; C4BD; C4B12; C4B_2; CPAMD3; complement C4-B; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 3; Chido form of C4; basic complement C4; complement C4B1a; complement component 4B (Chido blood group)
Gene ID	721

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mRNA Refseq	NM_001002029
Protein Refseq	NP_001002029
MIM	120820
UniProt ID	P0C0L5
	