

Recombinant Human C2 protein, His & T7-tagged

Cat. No. C2-7846H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human C2 aa. (Ile245~His451 (Accession # P06681)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ile245~His451
Description	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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 27.3kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)

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Purity	>95%
Characteristic	The isoelectric point is 5.9.
Applications	SDS-PAGE; WB; ELISA; IP
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°C 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°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	C2 complement C2 [Homo sapiens (human)]
Official Symbol	C2
Synonyms	C2; complement C2; CO2; ARMD14; C3/C5 convertase; complement component 2; complement component C2
Gene ID	717
mRNA Refseq	NM_000063.5

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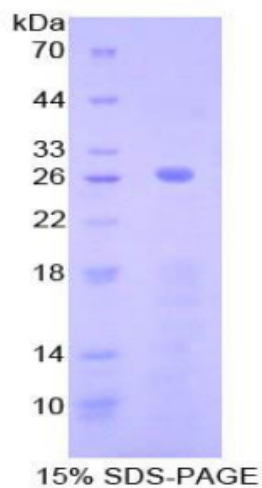
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Protein Refseq NP_000054.2

UniProt ID P06681

SDS-PAGE



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