

Human Complement Component C2 Protein

Cat. No. CC2-HM101



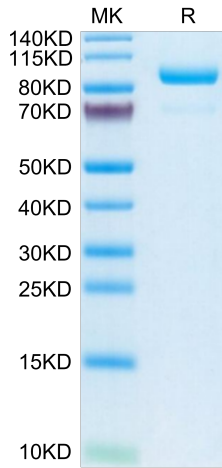
Description	
Source	Recombinant Human Complement Component C2 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ala21-Leu752.
Accession	P06681-1
Molecular Weight	The protein has a predicted MW of 82.2 kDa (Pro form). Due to glycosylation, the protein migrates to 83-90 kDa (Pro form) based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3-6 months after reconstitution.2-8°C for 2-7 days after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background	
Single nucleotide polymorphism (SNP) of complement component 2 (C2) has been found to be significantly associated with hepatocellular carcinoma (HCC). Significantly lower C2 expression was found at HCC compared to healthy controls, and C2 was associated with TNM stages. Higher C2 expression was significantly associated with better prognosis, and multivariate analysis showed that C2 was also an independent factor for the prognosis of HCC.	

Assay Data

Tris-Bis PAGE



Human Complement Component C2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

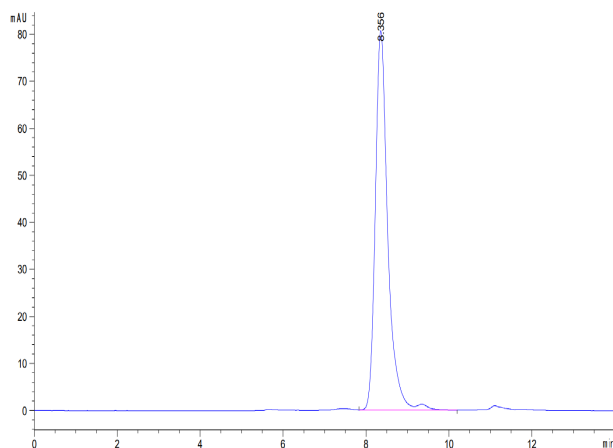
SEC-HPLC

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## Assay Data



The purity of Human Complement Component C2 is greater than 95% as determined by SEC-HPLC.

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## Assay Data

### Bioactivity Data

Measured by its ability to cleave a colorimetric peptide substrate, N-carbobenzyloxy-Gly-Arg-ThioBenzyl ester (Z-GR-SBzl), in the presence of 5,5'Dithio-bis (2-nitrobenzoic acid) (DTNB).The specific activity is >100 pmol/min/μg.