

Human Complement C2 Protein

Cat. No. CC2-HM101



Description

Source	Recombinant Human Complement 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 Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	>95% as determined by Bis-Tris PAGE >95% as determined by HPLC

Formulation and Storage

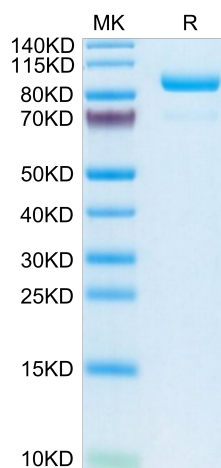
Formulation	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

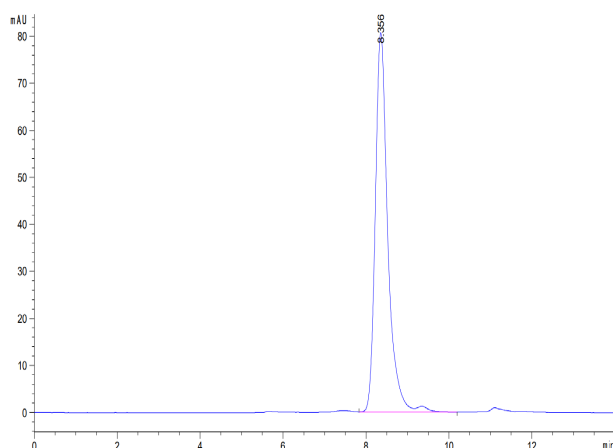
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



The purity of Human Complement 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.