

Rev04
 Update: Aug,20,2025

DATASHEET

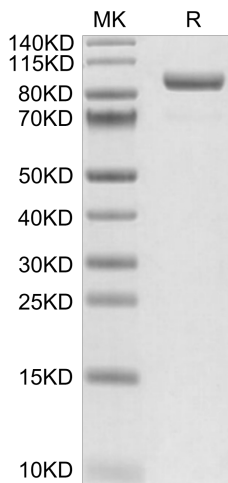
Complement C2, His, Human

Cat. No.: Z05190

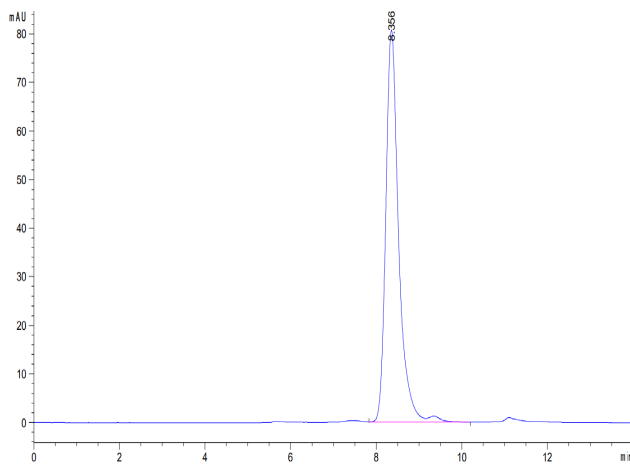
Product Introduction

Species	Human
Protein Construction	<div style="display: flex; align-items: center; justify-content: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> Complement C2 (Ala21-Leu752) Accession # P06681-1 </div> <div style="background-color: #76b82a; color: white; padding: 5px; text-align: center; margin-left: 10px;"> His </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px; font-size: small;"> N-term C-term </div>
Purity	> 95% as determined by BisTris PAGE
Endotoxin Level	Less than 1EU per µg by the LAL method.
Biological Activity	Measured by its ability to cleave a colorimetric peptide substrate, NcarbobenzyloxyGly - ArgThioBenzyl ester (ZGRSBzl), in the presence of 5,5'Dithiobis (2nitrobenzoic acid) (DTNB). Test result meets the standard.
Expression System	HEK293
Theoretical Molecular Weight	82.2 kDa (Pro form)
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 83-90 kDa (Pro form) based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4).
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 & Stability	Upon receiving, the product remains stable for 6 months at -20°C or below. Upon reconstitution, the product should be stable for 3 months at -80°C. Avoid repeated freeze-thaw cycles.

Examples



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



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

Background

Target 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.

Synonyms : Complement Component C2; C3/C5 convertase; C2; ARMD14; CO2

For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.

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