

Human Complement C5 Protein

Cat. No. CC5-HM1C5

Description

Source	Recombinant Human Complement C5 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gln19-Cys1676.
Accession	P01031-1
Molecular Weight	Human Complement C5 Protein is cleaved into α chain and β chain by the enzyme lysis. Each chain has a predicted MW of 112.5 kDa (α chain) and 73.29 (β chain). Due to glycosylation, the protein migrates to 110-114 kDa (α chain) and 69-73 (β chain) based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μ g by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

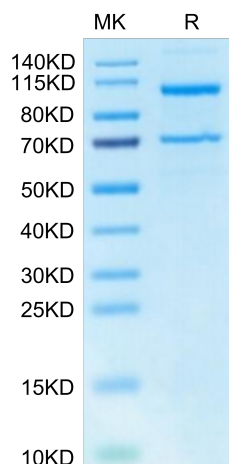
Formulation	Lyophilized from 0.22 μ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μ g/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state 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

Complement component 5 (C5) is an essential factor of the defensive complement system in all vertebrates. C5 plays a major role in complement activation; C5 convertase cleaves C5 into the pro-inflammatory C5a, and C5b, the nidus for the formation of the lytic membrane attack complex.

Assay Data

Tris-Bis PAGE



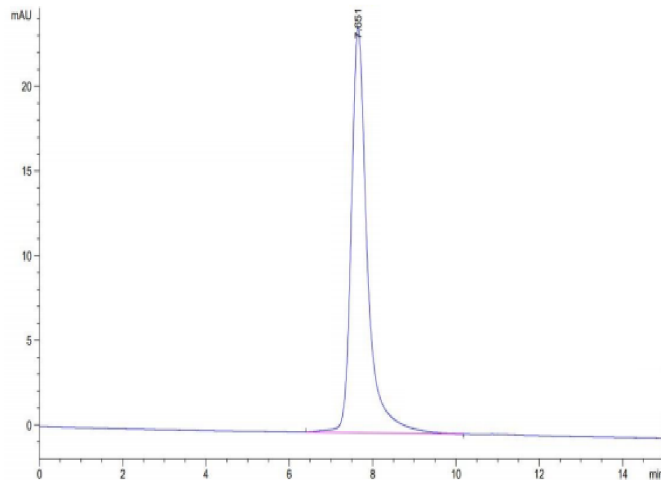
Human Complement C5 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Human Complement C5 Protein

Cat. No. CC5-HM1C5

Assay Data

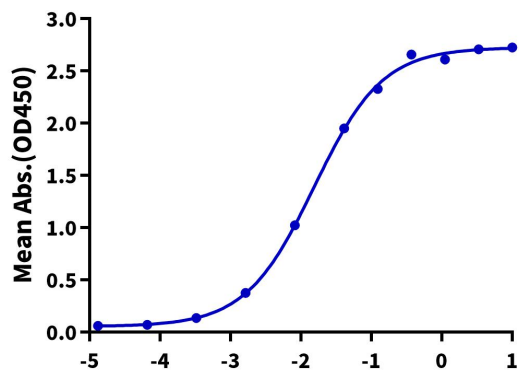


The purity of Human Complement C5 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human Complement C5, His Tag ELISA

0.1 μ g Human Complement C5, His Tag Per Well



Immobilized Human Complement C5, His Tag at 1 μ g/ml (100 μ l/well) on the plate. Dose response curve for Anti-Complement C5 Antibody, hFc Tag with the EC50 of 15.4ng/ml determined by ELISA.