

## Human Complement C3 Protein, His Tag (MALS verified)

**Cat#: orb1087565 (CoA)**

### Certificate of Analysis

**Cat. No.** orb1087565

**Lot. No.** 5305A-A001-226UF1-141

**Size** 100 ug

### Description

**Source** Human Complement C3, His Tag is expressed from human 293 cells (HEK293). It contains AA Ser 23 – Asn 1663 (Accession # P01024-1). Predicted N-terminus: Ser 23

### Molecular Characterization

This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 186.8 kDa. The protein migrates as 70 kDa, 100-120 kDa and 160-180 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

### Specifications

**Physical Appearance** White powder

**Protein Content** Verified by one or more methods from UV280/SDS-PAGE/BCA/Bradford.

**Endotoxin** Less than 1.0 EU per µg by the LAL method.

**Purity** >95% as determined by SDS-PAGE.

>90% as determined by HP-SEC, and 168-204 kDa verified by MALS.

**Formulation** Lyophilized from 123 µL bulk protein in a 0.2 µm filtered solution of PBS, pH7.4 with 10% trehalose as protectant.

### Reconstitution

It is strongly recommended to reconstitute the lyophilized Human Complement C3, His Tag with 100 µL sterile deionized water to a stock solution of 1000 µg/ml.

Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing.

**Avoid vigorous shaking or vortexing.**

### Minimal volume for aliquot

To avoid surface adsorption loss and inactivation, the reconstituted protein must NOT be aliquoted to **less than 10 ug per vial.**

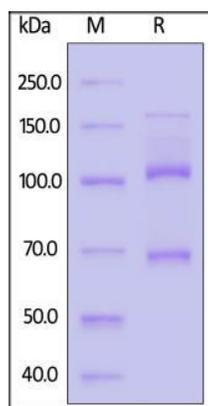
**Under the following conditions, Carrier protein (0.1% (W/V) BSA or HSA MUST**

1. Aliquots of less than 10 ug/vial; be included in reconstitution buffer.

2. The concentration is less than the recommended reconstitution concentration published on the COA;
3. Long term storage.

### SDS-PAGE

Human Complement C3, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.



### Shipping and Storage

The product is shipped at ambient temperature. Upon receipt, store it immediately at -20°C or lower for long term storage.

This product is stable after storage at:

1. -20 to -70°C for 12 months in lyophilized state from date of receipt;
2. -70°C for 3 months under sterile conditions after reconstitution.

**Once reconstitution, store the stock solution at -70°C immediately and avoid repeated freeze-thaw cycles!**