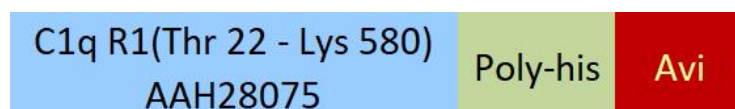


**Synonym**

CD93,CDw93,C1QR1,MXRA4,C1qR,C1qR(P),C1qRP,ECSM3

**Source**

Biotinylated Human C1q R1, His,Avitag(C11-H82E9) is expressed from human 293 cells (HEK293). It contains AA Thr 22 - Lys 580 (Accession # [Q9NPY3-1](#)).  
 Predicted N-terminus: Thr 22

**Molecular Characterization**

This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™)

The protein has a calculated MW of 62.0 kDa. The protein migrates as 80-90 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Labeling**

*Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.*

**Protein Ratio**

Passed as determined by the HABA assay / binding ELISA.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>95% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

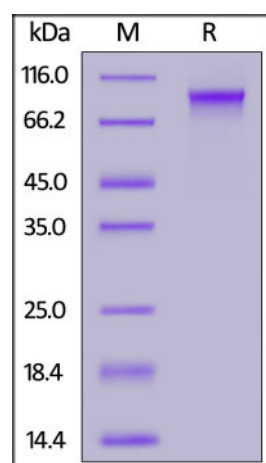
**Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

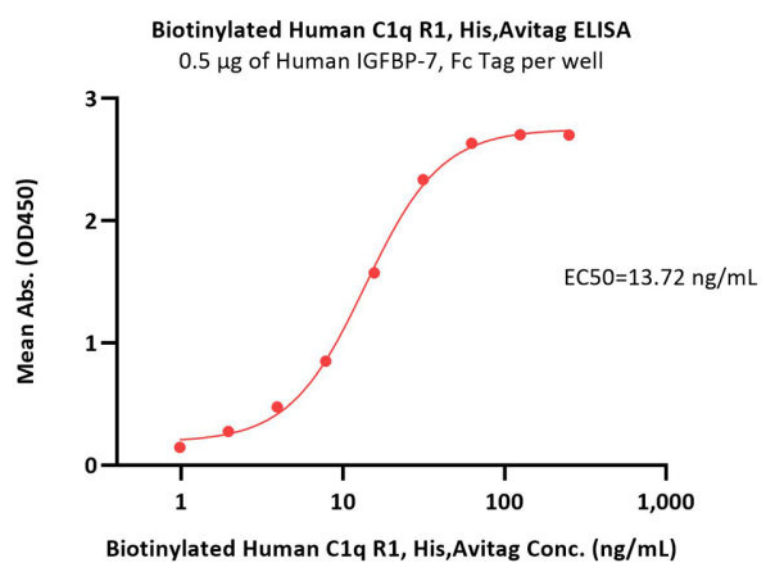
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**

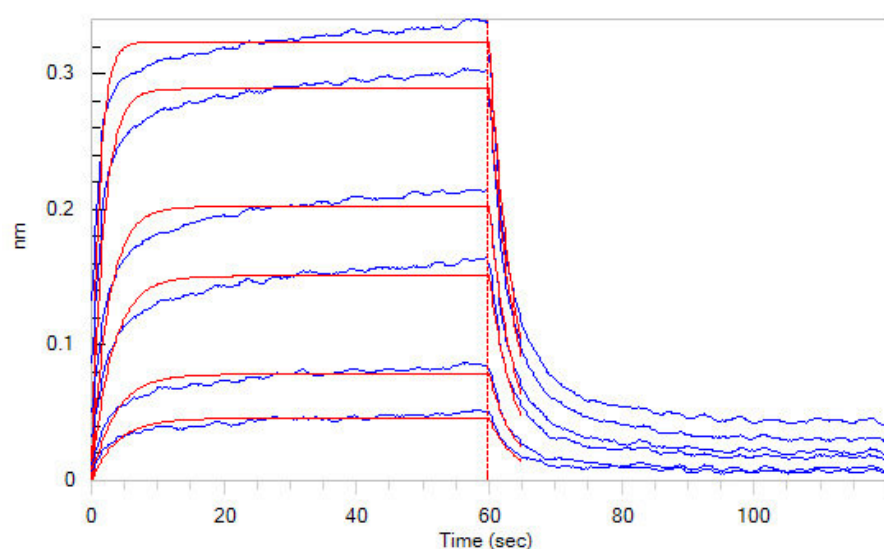
Biotinylated Human C1q R1, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

**Bioactivity-ELISA**



Immobilized Human IGFBP-7, Fc Tag (Cat. No. IG7-H5259) at 5 µg/mL (100 µL/well) can bind Biotinylated Human C1q R1, His,Avitag (Cat. No. C11-H82E9) with a linear range of 1-31 ng/mL (QC tested).

### Bioactivity-BLI



Loaded Biotinylated Human C1q R1, His,Avitag (Cat. No. C11-H82E9) on SA Biosensor, can bind Human IGFBP-7, His Tag (Cat. No. IG7-H5240) with an affinity constant of 0.93 µM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

### Background

CD antigen CD93 is also known as Complement component C1q receptor (C1QR1), which belongs to the Group XIV C-Type lectin family, a group containing two other members, endosialin (CD248) and thrombomodulin. CD93 contains one C-type lectin domain and five EGF-like domains. CD93 is highly expressed in endothelial cells, platelets, cells of myeloid origin, such as monocytes and neutrophils. CD93 is receptor for C1q, mannose-binding lectin (MBL2) and pulmonary surfactant protein A (SPA). CD93 may mediate the enhancement of phagocytosis in monocytes and macrophages upon interaction with soluble defense collagens and may play a role in intercellular adhesion.

### Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.