

**Synonym**

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

**Source**

Human C1q R1, His Tag(C11-H5228) is expressed from human 293 cells (HEK293). It contains AA Thr 22 - Lys 580 (Accession # [AAH28075](#)).

Predicted N-terminus: Thr 22

**Molecular Characterization**

C1q R1(Thr 22 - Lys 580)  
AAH28075 Poly-his

This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 59.2 kDa. The protein migrates as 70-100 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

**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.*

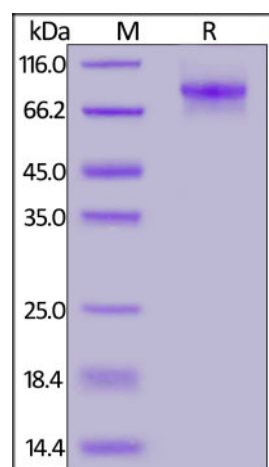
**Storage**

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

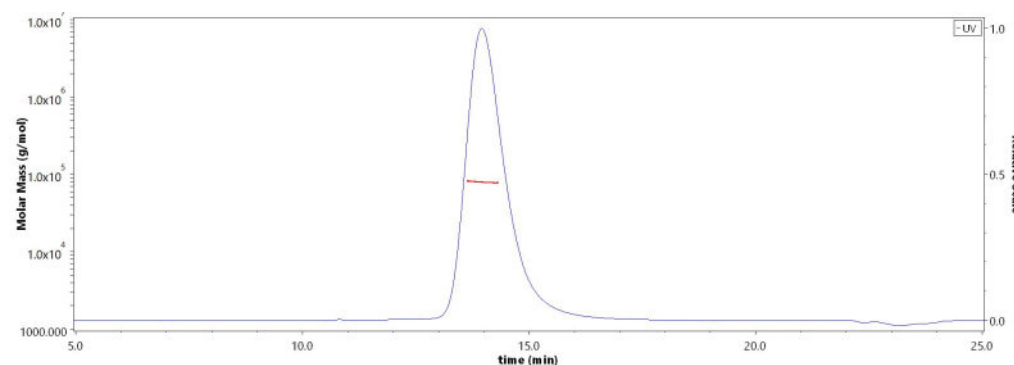
*Please avoid repeated freeze-thaw cycles.*

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.

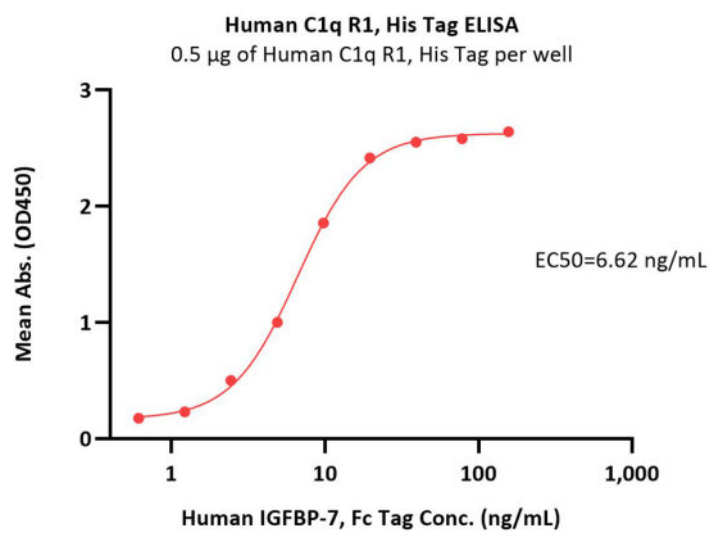
**SDS-PAGE**

Human C1q R1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

**Bioactivity-ELISA****SEC-MALS**

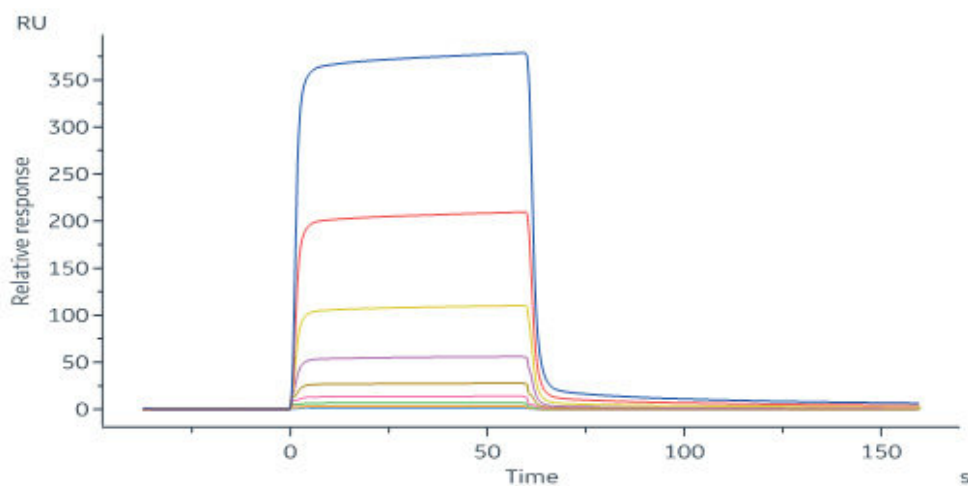
The purity of Human C1q R1, His Tag (Cat. No. C11-H5228) is more than 90% and the molecular weight of this protein is around 75-85 kDa verified by SEC-MALS.

[Report](#)



Immobilized Human C1q R1, His Tag (Cat. No. C11-H5228) at 5 µg/mL (100 µL/well) can bind Human IGFBP-7, Fc Tag (Cat. No. IG7-H5259) with a linear range of 0.6-20 ng/mL (QC tested).

### Bioactivity-SPR



Human IGFBP-7, His Tag (Cat. No. IG7-H5240) immobilized on CM5 Chip can bind Human C1q R1, His Tag (Cat. No. C11-H5228) with an affinity constant of 16.7 µM as determined in a SPR assay (Biacore 8K) (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.