

**Synonym**

CD200,MOX1,MOX2,MRC,OX-2,My033

**Source**

Human CD200, Fc Tag (OX2-H5251) is expressed from human 293 cells (HEK293). It contains AA Gln 31 - Gly 232 (Accession # [AAH22522](#)).

Predicted N-terminus: Gln 31

**Molecular Characterization**

CD200(Gln 31 - Gly 232) AAH22522	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 48.6 kDa. The protein migrates as 55-68 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**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 50 mM Tris, 100 mM Glycine, pH7.5. Normally trehalose is added as protectant before lyophilization.

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.*

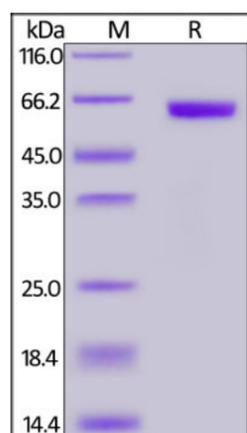
**Storage**

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

*Please avoid repeated freeze-thaw cycles.*

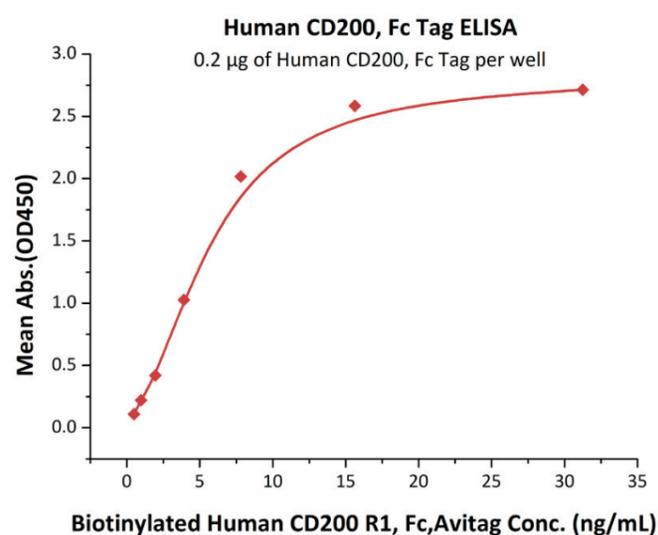
This product is stable after storage at:

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

**SDS-PAGE**

Human CD200, Fc 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%.

**Bioactivity-ELISA**



Immobilized Human CD200, Fc Tag (Cat. No. [OX2-H5251](#)) at 2 µg/mL (100 µL/well) can bind Biotinylated Human CD200 R1, Fc, Avitag (Cat. No. [CR2-H82F4](#)) with a linear range of 0.5-7.8 ng/mL (QC tested).

## Background

CD200 is also known as OX-2 membrane glycoprotein (OX-2), is a type-1 membrane glycoprotein, which contains two immunoglobulin domains (1 Ig-like C2-type (immunoglobulin-like) domain and Ig-like V-type (immunoglobulin-like) domain), and thus belongs to the immunoglobulin superfamily. CD200 / OX-2 is widely expressed in multiple cell types. CD200 interacts with a structurally related receptor (CD200R) expressed mainly on myeloid cells and is involved in regulation of macrophage and mast cell function. OX-2 / CD200 and CD200R associate via their respective N-terminal Ig-like domains. CD200 also plays an important role in prevention of graft rejection, autoimmune diseases and spontaneous abortion.

## References

- (1) [McCaughan, G.W. et al., 1987, Immunogenetics 25:329-335.](#)
- (2) [Chen, Z. et al., 2006, Mol Immunol. 43 \(6\): 579-587.](#)
- (3) [Wright GJ., et al., 2003, J. Immunol. 171 \(6\): 3034-46.](#)

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