

## Recombinant Mouse Cd200r1 protein(Met1-Pro238), His&hFc-tagged

**Cat. No.** Cd200r1-631M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Mouse CD200R1 (NP_067300.1)(Met 1-Pro 238) was expressed in HEK293, fused with the C-terminal polyhistidine-tagged Fc region of Human IgG1 at the C-terminus.                                                                                                                                                                          |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>    | 1-238 a.a.                                                                                                                                                                                                                                                                                                                                         |
| <b>Form</b>             | Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.                                                                                                                                                                                                     |
| <b>Bio-activity</b>     | Measured by its binding ability in a functional ELISA. Immobilized recombinant mouse CD200 at 1 µg/ml (100 µl/well) can bind mouse CD200R1/Fc with a linear range of 1.5-200 ng/ml.                                                                                                                                                                |
| <b>Molecular Mass</b>   | The recombinant mouse CD200R1/Fc is a disulfide-linked homodimer after removal of the signal peptide. The reduced monomer consists of 462 amino acids and has a predicted molecular mass of 51.3 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rmCD200R1/Fc monomer is approximately 90-100 kDa due to glycosylation. |
| <b>Endotoxin</b>        | < 1.0 EU per µg of the protein as determined by the LAL method                                                                                                                                                                                                                                                                                     |

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|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 97 % as determined by SDS-PAGE                                                                                                                                                                                                                |
| <b>Storage</b>        | Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.                                                                   |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                        |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Cd200r1 CD200 receptor 1 [ <i>Mus musculus</i> ]                                                                                                                                                                                                       |
| <b>Official Symbol</b> | Cd200r1                                                                                                                                                                                                                                                |
| <b>Synonyms</b>        | CD200R1; CD200 receptor 1; cell surface glycoprotein CD200 receptor 1; Orexin receptor 2; CD200 cell surface glycoprotein receptor; cell surface glycoprotein OX2 receptor 1; antigen identified by monoclonal MRC OX-2 receptor; OX2R; Mox2r; CD200R; |
| <b>Gene ID</b>         | 57781                                                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>     | NM_021325                                                                                                                                                                                                                                              |
| <b>Protein Refseq</b>  | NP_067300                                                                                                                                                                                                                                              |

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