

# Recombinant Human CD200 protein (His tag)

Catalog Number:PKSH031373



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

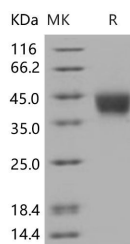
## Description

<b>Synonyms</b>	OX-2 Membrane Glycoprotein, CD200, MOX1, MOX2
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Met1-Gly232
<b>Accession</b>	P41217
<b>Calculated Molecular Weight</b>	24 kDa
<b>Observed molecular weight</b>	35 kDa
<b>Tag</b>	C-His
<b>Bioactivity</b>	Testing in progress

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	Please contact us for more information.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

CD200 is a transmembrane immunoregulatory protein that belongs to the immunoglobulin superfamily. It contains one Ig like V type domain and one Ig like C2 type domain in its extracellular domain. CD200 is widely but not ubiquitously expressed. Its receptor (CD200R) is restricted primarily to mast cells; basophils; macrophages; and dendritic cells; which suggests myeloid cell regulation as the major function of CD200. CD200 and CD200R associate via their respective N-terminal Ig-like domains. In myeloid cells; CD200R initiates inhibitory signals following receptor-ligand contact. In T cells; CD200 functions as a co-stimulatory molecule independent of the CD28 pathway. In addition; CD200 also plays an important role in prevention of graft rejection; autoimmune diseases and spontaneous abortion.

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