

# Recombinant mouse CD200 protein

Catalog Number: ATGP3964

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

31-232aa

### UniProt No.

O54901

### NCBI Accession No.

NP\_034948

### Alternative Names

Cd200, Mox2, OX2, OX-2 membrane glycoprotein isoform 1, MRC OX-2 antigen

## PRODUCT SPECIFICATION

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### Molecular Weight

23.5 kDa (210aa)

### Concentration

0.25mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Biological Activity

Measured by its binding ability in a functional ELISA with Mouse CD200 R1 (CAT# ATGP3457)

### Tag

His-Tag

### Application

SDS-PAGE, Bioactivity

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

CD200, also known as OX-2 membrane glycoprotein isoform 1, is one of the immunoglobulin superfamily. It

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plays an important role in anti-tumor immunity through interaction with its receptor, and overexpression of this protein effects on malignancies as well as on cancer stem cells. In T cells, this protein functions as a co-stimulatory effect that is independent of the CD28 pathway. It also plays an important role on myeloid cell regulation that is suggested by restricted expression of its receptor. Studies of this protein in mouse and rat suggest that this gene may regulate myeloid cell activity and delivers an inhibitory signal for the macrophage lineage in diverse tissues. Recombinant mouse CD200, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

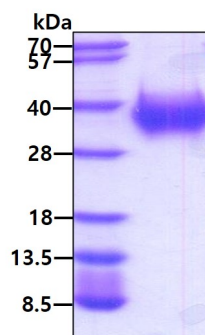
QVEVVTQDER KALHTTASLR CSLKTSQEPL IVTWQKKKAV SPENMVTYSK THGVVIQPAY KDRINVTELG LWNSSITFWN TTLEDEGICYM CLFNTEFGSQK VSGTACLTLV VQPIVHLHYN YFEDHLNITC SATARPAPAI SWKGTGTGIE NSTESHFHSN GTTSVTSILR VKDKPTQVGK EVICQVLYLG NVIDYKQSLD KG<LEHHHHHH>

## General References

Poongodi R., et al. (2018) Indian J Pathol Microbiol. 61:50-57.  
 Kuwabara J., et al. (2018) Biochem Biophys Res Commun. 496:542-548.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

### Biological Activity

Mouse CD200 is coated at 1 ug/ml (100 ul/well) can bind CD200 R1 (CAT# ATGP3457) in a Functional ELISA assay.

