

# Recombinant mouse CD200R1 protein

Catalog Number: ATGP3457

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

26-238aa

### UniProt No.

Q9ES57

### NCBI Accession No.

NP\_067300

### Alternative Names

Cell surface glycoprotein CD200 receptor 1, Cd200r1, CD200R, Mox2r, OX2R, CD200 receptor 1, CD200 cell surface glycoprotein receptor, Cell surface glycoprotein OX2 receptor 1, CRTR2, MOX2 receptor

## PRODUCT SPECIFICATION

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### Molecular Weight

50.4 kDa (455aa)

### Concentration

0.5mg/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 (CAT# ATGP3964). The ED50 range  $\leq$  1 ug/ml.

### Tag

hIgG-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.

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## BACKGROUND

### Description

Cd200r1, also known cell surface glycoprotein CD200 receptor 1, is an isoform of CD200 receptors which is expressed on cells of the myeloid lineage. Its inhibitory signaling pathway has been implicated in playing a prominent role in limiting inflammation in a wide range of inflammatory diseases. Its signaling inhibits the expression of proinflammatory molecules including tumor necrosis factor, interferons, and inducible nitric oxide synthase in response to selected stimuli. Recombinant mouse Cd200r1, fused to hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

### Amino acid Sequence

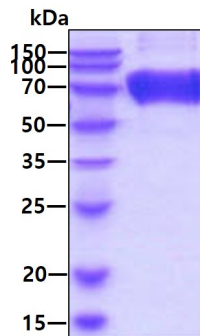
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TWASTPDHSP ELQISAVTLQ HEGTYTCETV TPEGNFEKNY DLQVLVPEV TYFPEKNRSA VCEAMAGKPA AQISWSPDGD  
CVTTSESHSN GTVTVRSTCH WEQNNVSDVS CIVSHLTGNQ SLSIELSRGG NQSLRP<LEPK SCDKTHTCPP CPAPELLGGP  
SVFLFPPKPK DTLMISRTPE VTCVVVDVSH EDPEVKFNWY VDGVEVHNAK TKPREEQYNS TYRVVSVLTV LHQDWLNGKE  
YKCKVSNKAL PAPIEKTISK AKGQPREPQV YTLPPSRDEL TKNQVSLTCL VKGFYPSDIA VEWESNGQPE NNYKTTTPVL  
DSDGSFFLYS KLTVDKSRWQ QGNVFSCSVM HEALHNHYTQ KSLSLSPGKH HHHHH>
```

### General References

Vaine CA., et al. (2014) Adv Immunol. 121:191-211.  
Horie S., et al. (2013) Sci Rep. 3:3072.

## DATA

### SDS-PAGE



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

### Biological Activity

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Human CD200 (CAT# ATGP3964) is coated at 1 ug/ml (100 ul/well) can bind Human CD200 R1. The ED50 range  $\leq$  1 ug/ml.

