

Recombinant human CD200R1 protein

Catalog Number: ATGP3809

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

24-243aa

UniProt No.

Q8TD46

NCBI Accession No.

NP_740750

Alternative Names

Cell surface glycoprotein CD200 receptor 1 isoform d, CD200 cell surface glycoprotein receptor, Cell surface glycoprotein OX2 receptor 1, CD200R, CRTR2, MOX2 receptor, MOX2R, OX2R, HCRTR2

PRODUCT SPECIFICATION

Molecular Weight

51.9 kDa (462aa)

Concentration

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

Formulation

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

Purity

> 90% 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 Human CD200 (CAT# ATGP4013). 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.

Recombinant human CD200R1 protein

Catalog Number: ATGP3809

BACKGROUND

Description

CD200R1, also known as cell surface glycoprotein CD200 receptor 1 isoform d, is a transmembrane protein in the immunoglobulin superfamily. This glycoprotein contains on C2 type Ig-like domain and V type Ig-like domain within its extracellular domain and a PTB-signaling motif in cytoplasmic domain. Also, it is expressed on myeloid cells and CD4+ T cells. For function, this receptor is restricted to the surfaces of myeloid lineage cells and the receptor-substrate interaction may function as a myeloid down regulatory signal. Activation of CD200R1 regulates the expression of inflammatory molecules such as tumor necrosis factor (TNF-alpha), interferon and inducible nitric oxide synthase (iNOS). Recombinant human CD200R1, fused to hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

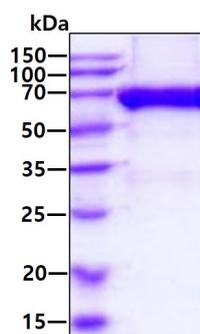
```
<ADL>SSSLCMD EKQITQNYSK VLAEVNTSWP VKMATNAVLC CPPIALRNLI IITWEILRG QPSCTKAYKK ETNETKETNC  
TDERITWVSR PDQNSDLQIR TVAITHDGYR RCIMVTPDGN FHRGYHLQVL VTPEVTLFQN RNRTAVCKAV AGKPAAHISW  
IPEGDCATKQ EYWSNGTDTV KSTCHWEVHN VSTVTCHVSH LTGNKSLYIE LLPVPGAKKS AKL<LEPKSCD KTHTCPPCPA  
PELLGGPSVF LFPPKPKDTL MISRTPEVTC VVVDVSHEDP EVKFNWYVDG VEVHNAKTKP REEQYNSTYR VVSVLTVLHQ  
DWLNGKEYKC KVSNKALPAP IEKTISKAKG QPREPQVYTL PPSRDELTKN QVSLTCLVKG FYPSDIAVEW ESNGQPENNY  
KTPPVLDSD GSFFLYSKLT VDKSRWQQGN VFSCSVMHEA LHNHYTQKSL SLSPGKHHHH HH>
```

General References

Wright GJ., et al, (2003) J. Immunol. 171:3034-3046.
Liu JQ., et al, (2016) J. Immunol. 197:1489-1497.

DATA

SDS-PAGE



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

Biological Activity

Recombinant human CD200R1 protein

Catalog Number: ATGP3809

CD200 (ATGP4013) is coated at 10 ug/ml (100 ul/well) can bind Human CD200R1. The ED50 range ≤ 1 ug/ml.

