InnoCyto Inc.
15375 Barranca Pkwy, Suite I-103
Irvine, CA 92618

Technical Data Sheet

Biotinylated Human CD200R1 (C-Fc-Avi)

Catalog Number: 815203, 815204
Size: 25 ug, 100 ug
Target Name: CD200R, CRTR2, MOX2R, OX2R
Regulatory Status: RUO

Product Details

Application: ELISA, BLI
Format: Liquid, Biotinylated
Expression Host: CHO
Species: Human
Sources: Recombinant Human CD200R1 (Ala27-Leu266) with C-terminus Fc-Avi-tag is expressed in CHO cell. This protein was site-specifically labeled with Biotin by BirA ligase.
Accession Number: Q8TD46
Molecular Weight: The protein has a predicted molecular weight of 55.3 kDa. Under DTT-reducing conditions, it migrates at approximately 80-110 kDa on SDS-PAGE.
Affinity Tag: C-Fc-Avi
Purity: >95% based on SDS-PAGE under reducing condition
Formulation: 1xPBS buffer, pH7.4, 0.22 μm filtered
Endotoxin level: Not tested
Protein Concentration: 25μg size is bottled at 0.2mg/mL concentration. 100 μg size is supplied at a lot-specific concentration.
Storage and Handling: Briefly centrifuge the vial upon receipt. An unopened vial can be stored at 4°C for up to 2 weeks, or at -20°C or below for up to six months. The protein may be further diluted to 0.1 mg/mL using 0.22 μm-filtered PBS buffer (pH 7.4). For long-term storage, the diluted stock solution should be aliquoted and stored at <= –70°C to minimize freeze-thaw cycles. If additional dilution is required, carrier proteins such as FBS or BSA should be added to maintain protein stability.

Background Information

The cluster of differentiation (CD) system is essential for immunophenotyping, with over 320 unique CD molecules and subclusters identified to date. These CD molecules play various roles in immune cells, either acting as receptors or ligands to initiate signaling cascades that alter cell behavior, or serving non-signaling functions like cell adhesion. CD200 receptor 1 (CD200R1), an isoform of CD200 receptors, is a cell surface glycoprotein expressed on myeloid lineage cells. It serves as a receptor for the OX-2 membrane glycoprotein, and the interaction between CD200R1 and OX-2 functions as a downregulatory signal for myeloid cells, playing a role in immune regulation.

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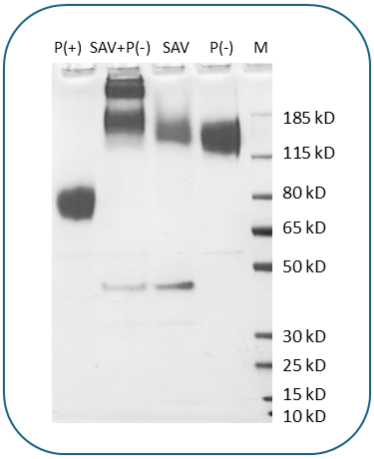

Human CD200R Protein (C-Fc-Avi) was biotinylated in vitro using BirA ligase. SDS-PAGE analysis under reducing (P+) and non-reducing (P-) conditions shows the protein has a purity greater than 95%. A gel shift assay using co-incubation with streptavidin indicates that the biotinylation efficiency of Human CD200R protein exceeds 80%.