



# Recombinant Protein Technical Manual

## Recombinant Human CD200R1 Protein (His Tag)

RPES2994

### Product Data:

**Product SKU:** RPES2994

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** AAI43394.1

### Protein Information:

**Molecular Mass:** 25.2 kDa

**AP Molecular Mass:** 58 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 90 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** 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.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Cell Surface Glycoprotein CD200 Receptor 1; CD200 Cell Surface Glycoprotein Receptor; Cell Surface Glycoprotein OX2 Receptor 1; CD200R1; CD200R; CRTR2; MOX2R; OX2R

## Immunogen Information:

**Sequence:** Ala27-Leu266

## Background:

Cell surface glycoprotein CD200 Receptor 1 (CD200R1) is the receptor for the CD200 (OX-2) membrane glycoprotein. CD200R1 contains one C2- type Ig-like domain and one V-type Ig-like domain within its extracellular domain and a PTB-signaling motif in cytoplasmic domain. CD200R1 and CD200 associate via their respective N-terminal Ig-like domains. CD200R1 is restricted primarily to mast cells, basophils, macrophages, and dendritic cells. It propagates inhibitory signals despite its lacking a cytoplasmic ITIM (immunoreceptor tyrosinebased inhibitory motif). The receptor-substrate interaction may function as a myeloid downregulatory signal.