

CD200R1/CRTR2 Protein, Human, Recombinant (hFc)

General Information

Synonyms:	MOX2R;CRTR2;CD200R;HCRTR2;CD200 R1;MOX2 receptor;OX2R;CD200 receptor 1
Protein Construction:	Ala27-Leu266
Species:	Human
Expression Host:	HEK293 Cells
Accession:	AAQ19772
Molecular Weight:	53.7 kDa (predicted). Due to glycosylation, the protein migrates to 75-105 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human CD200, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Human CD200 R1, hFc Tag with the EC50 21.6ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

CD200Fc, a chimeric molecule including the extracellular domain of CD200 and a murine IgG2a Fc region, regulates immune responses following engagement of a cell surface receptor, CD200R, expressed on cells of the myeloid and T cell lineage. A recent report focused attention on a family of CD200Rs, but concluded that only one member used CD200 as its ligand.

Reference

Gorczynski R, et al. CD200 is a ligand for all members of the CD200R family of immunoregulatory molecules. J Immunol. 2004;172(12):7744-7749. doi:10.4049/jimmunol.172.12.7744

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481