

CD200 Protein, Human, Recombinant (His & Avi), Biotinylated

General Information

Synonyms:	MOX2;Cd200 molecule;OX2;MOX1;OX-2;MRC
Protein Construction:	Gln31-Gly232
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P41217-1
Molecular Weight:	25.35 kDa (Predicted); 45-60 kDa (Reducing conditions due to glycosylation)

QC Testing

Biological Activity:	Immobilized Biotinylated Human CD200, His Avi Tag at 1µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Human CD200 R1, hFc Tag with the EC50 of 5.5ng/ml determined by ELISA. (QC Test)
Purity:	> 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant 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

CD200 and its receptors are highly expressed in the lung, on epithelial cells and leukocytes, and emerging evidence links dysregulation of the CD200 pathway with asthma. Moreover, pharmacological modulation of CD200 receptors was shown to improve clinical and inflammatory outcomes of preclinical asthma models.

Reference

Minas K, et al. (2006) Is the CD200/CD200 receptor interaction more than just a myeloid cell inhibitory signal? Crit Rev Immunol. 26(3): 213-30.

Wang XJ, et al. (2007) CD200-CD200R regulation of microglia activation in the pathogenesis of Parkinson's disease. J Neuroimmune Pharmacol. 2(3): 259-64.

Wong KK, et al. (2010) The role of CD200 in immunity to B cell lymphoma. J Leukoc Biol. 88(2): 361-72.

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