

CD200R4 Protein, Mouse, Recombinant (His)

General Information

Synonyms:	Cd200r4;CD200 receptor 4;F630107N04Rik;MCD200RLa
Protein Construction:	A DNA sequence encoding the extracellular domain of mouse CD200R4 (NP_997127.1) (Met 1-Thr 241) was expressed, fused with a polyhistidine tag at the C-terminus. Predicted N terminal: Thr 26
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q6XJV4
Molecular Weight:	25 kDa (predicted); 50-60 kDa (reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 96 % as determined by SDS-PAGE
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, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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

Cell surface glycoprotein CD2 receptor 4, also known as Cell surface glycoprotein OX2 receptor 4, CD2 cell surface glycoprotein receptor-like 4, CD2RLa, and CD2R4, is a single-pass type I membrane protein which belongs to the CD2R family. CD2 (OX2) is a cell surface glycoprotein that interacts with a structurally related receptor (CD2R) expressed mainly on myeloid cells and is involved in regulation of macrophage and mast cell function. In mouse

there are up to five genes related to CD2R with conflicting data as to whether they bind CD2. CD2R4 contains one Ig-like C2-type (immunoglobulin-like) domain and one Ig-like V-type (immunoglobulin-like) domain. CD2R4 is highly expressed in monocytes, NK cells and a subset of NKT cells. It is weakly expressed in granulocytes and B cells (at protein level). CD2R4 is also expressed in brain, lung, testis, thymus, intestine and uterus. and in bone marrow derived-macrophage and dendritic cells and mast cells. CD2R4 is involved in the recruitment or surface expression of the TYROBP receptor.

Reference

- Wright, GJ. et al.,2003, J. Immunol. 171: 3034-46.
Gorczyński, R. et al., 2004,J. Immunol. 172:7744-7749.
Gorczyński, RM. et al.,2004, Am. J. Reprod. Immunol. 52:147-163.
Hatherley, D. et al.,2005. J. Immunol. 175: 2469-2474.

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