

Active Recombinant Human CD200, Fc-tagged

Cat. No. CD200-164H Lot. No. (See product label)

SPECIFICATION

Product Overview

The extracellular domain of human CD200 (aa 31-236) is fused to the N-terminus of the Fc region of a mutant human IgG1.

Species

Human

Source

CHO

ProteinLength

31-236 a.a.

Description

CD200, also known as OX-2, is a 45 kDa transmembrane immunoregulatory protein that belongs to the immunoglobulin superfamily. CD200 is widely but not ubiquitously expressed. Its receptor (CD200R) is restricted primarily to mast cells, basophils, macrophages, and dendritic cells, which suggests myeloid cell regulation as the major function of CD200. CD200 knockout mice are characterized by increased macrophage number and activation and are predisposed to autoimmune disorders. In T cells, CD200 functions as a costimulatory molecule independent of the CD28 pathway. Several viruses encode CD200 homologs which are expressed on infected cells during the lytic phase. Like CD200 itself, viral CD200 homologs also suppress myeloid cell activity, enabling increased viral propagation.

Form

Lyophilized from 0.2µm-filtered solution in PBS.

Bio-activity

Shows the biological function of the CD200 moiety and exerts a prolonged circulating half-life caused by the modified Fc domain.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	≥98% (SDS-PAGE)
Stability	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
Storage	Short Term Storage: +4°C; Long Term Storage: -20°C. Avoid freeze/thaw cycles.
GENE INFORMATION	
Gene Name	CD200 CD200 molecule [Homo sapiens]
Official Symbol	CD200
Synonyms	CD200; CD200 molecule; antigen identified by monoclonal MRC OX 2 , CD200 antigen , MOX1, MOX2; OX-2 membrane glycoprotein; MRC; OX 2; CD200 antigen; MRC OX-2 antigen; antigen identified by monoclonal MRC OX-2; MOX1; MOX2; OX-2;
Gene ID	4345
mRNA Refseq	NM_001004196
Protein Refseq	NP_001004196
MIM	155970
UniProt ID	P41217
Chromosome Location	3
Pathway	Adaptive Immune System, organism-specific biosystem; Immune System, organism-

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specific biosystem; Immunoregulatory interactions between a Lymphoid and a non-Lymphoid cell, organism-specific biosystem;

Function

identical protein binding; protein binding;

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