CD200, Fc Fusion, Avi-Tag Recombinant

Product Information

Description:	Recombinant human CD200 (cluster of differentiation 200), encompassing amino acids 31-232. This construct contains an Fc domain of IgG1 fused to the C-terminus, followed
	by a C-terminal Avi-Tag™. This protein was affinity purified.
Background:	CD200 (cluster of differentiation 200), also known as OX-2, is type 1 membrane
	glycoprotein of the immunoglobulin supergene family. It is structurally related to the
	B7 family of costimulatory receptors. It is found in cells of the myeloid and lymphoid
	lineage, such as activated T and B cells, neurons, endothelial cells, and cancer cells. Its
	expression depends on IFN- γ (interferon gamma) and TNF- α (tumor necrosis factor
	alpha), and it is regulated by C/EBP- β . When bound to CD200R (CD200 receptor) it
	contributes to the formation of an immunosuppressive TME (tumor
	microenvironment), via a Dok1 (docking protein 1), Dok2 and RasGAP dependent
	mechanism, leading to T cell responses inhibition, NK cell cytotoxicity decrease,
	potentiation of Treg cell expansion and decrease of other immune responses to cancer
	cells. CD200 can be found in a soluble form at high levels in the serum of cancer
	patients, linking to a poor prognosis. A splice variant missing exon 2, CD200tr, can also
	be formed, which may act as a competitive inhibitor for full length CD200. In addition to cancer, CD200 is linked to auto-immune disorders, inflammation, infection, and graft
	survival. Samalizumab, an anti-CD200 monoclonal antibody, has resulted in positive
	outcomes when used in patients suffering from CLL (chronic lymphocytic leukemia) and
	MM (multiple myeloma).
Species:	Human
Construct:	CD200 (31-232-Fc(lgG1)-Avi)
Concentration:	1.64 mg/ml
Expression System:	HEK293
Purity:	≥90%
Format:	Aqueous buffer solution.
Formulated In:	8 mM phosphate, pH 7.4, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol
MW:	51 kDa + glycans
Glycosylation:	This protein runs at a higher MW by SDS-PAGE due to glycosylation.
Genbank Accession:	NM_005944.7
Stability:	At least 6 months at -80°C.
Storage:	-80°C
Instructions for Use:	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before
	opening. Aliquot into small volumes and flash freeze for long term storage. Avoid
	multiple freeze/thaw cycles.
Applications:	Useful for SDS-PAGE.



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Quality Control Data

4-20% SDS-PAGE Coomassie Staining



