For Research Use Only Recombinant Human CD200R1 protein (hFc Tag, Myc Tag, His Tag)



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Catalog Number: Eg0032

Basic Information	Species: Human	Purity: >95 %, SDS-PAGE	T <mark>ag:</mark> hFc Tag, Myc Tag, His Tag
	3-10 ng/mL		
Technical Specifications	Purity: >95 %, SDS-PAGE		
	<mark>Endotoxin Level:</mark> <0.1 EU/ μ g protein, LAL method		
	Source: HEK293-derived Human CD200R1 protein Ala27-Leu266 (Accession# NP_620161.1) with a human IgG1 Fc tag, a Myc tag, a His tag at the C-terminus.		
	GenelD: 131450		
	Accession: NP_620161.1		
	Predicted Molecular Mass: 55.3 kDa		
	SDS-PAGE: 70-100 kDa, reducing (R) conditions		
	Formulation: Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
Biological Activity	Immobilized Human CD20 Myc tag, His tag) with a line	0 (Myc tag, His tag) at 2 μ g/mL (100 μ L/m range of 3-10 ng/mL.	well) can bind Human CD200R1 (hFc tag,
Storage and Shipping	Storage: It is recommended that th	e protein be aliquoted for optimal stora	ge. Avoid repeated freeze-thaw cycles.
	 Until expiry date, -20°C to -80°C as lyophilized proteins. 3 months, -20°C to -80°C under sterile conditions after reconstitution. 		
	Shipping: The product is shipped at a temperature.	ambient temperature. Upon receipt, stor	re it immediately at the recommended
Reconstitution	Briefly centrifuge the tube	e before opening. Reconstitute at 0.1-0.	5 mg/mL in sterile water.
Background	CD200R1 encodes a receptor for the OX-2 membrane glycoprotein, an Ig superfamily transmembrane glycoprotein expressed on the surface of myeloid cells; it can also be induced in certain T-cell subsets. CD200R1 interacts with CD200, which is also an Ig superfamily transmembrane glycoprotein, to down regulate myeloid cell functions. Mouse studies of a related gene suggest that this interaction may control myeloid function in a tissue-specific manner. CD200 is expressed on the surface of a variety of cells including neurons, epithelial cells, endothelial cells, fibroblasts, lymphoid cells, and astrocytes. The regulation of CD200R1 signaling can occur by posttranslational modification—namely, phosphorylation of tyrosines in the CD200R1 cytoplasmic tail—or by the inducible expression or downregulation of either CD200R1 or CD200.		
References	1. Timmerman LM., et al. (2 2. Lin S., et al. (2020) Eur J N 3. Blom LH., et al. (2017) All 4. Fraser SD., et al. (2016) So 5. Sun H., et al. (2016) Immu 6. Caserta S., et al. (2012) PI 7. Wright GJ., et al. (2000) 1	021) PLoS One. 29;16(3):e0244770. ergv. 72(7):1224-1230. ergy. 72(7):1081-1090. ci Rep. 8;6:38689. Jnol Lett. 178:105-13. LoS One. 7(4):e35466. 3(2):233-42.	
Synonyms	CD200R, CD200R1, CD200	receptor 1, CRTR2, HCRTR2	

Selected Validation Data





Purity of Recombinant Human CD200R1 was
determined by SDS-PAGE. The protein was resolved
in an SDS-PAGE in reducing (R) and non-reducing
(NR) conditions and stained using Coomassie blue.Immobilized Human CD200 (Myc tag, His tag) at 2
 μ g/mL (100 μ L/well) can bind Human CD200R1
(hFc tag, Myc tag, His tag) with a linear range of 3-
10 ng/mL

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.