

CD200R1 Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P76780
Synonyms:	Cell surface glycoprotein CD200 receptor 1; CD200R1; CD200R; CRTR2; MOX2R; OX2R
Species:	Cynomolgus
Source:	HEK293
Accession:	XP_005548207.1 (S47-L267)
Gene ID:	102139962
Molecular Weight:	Approximately 43-75 kDa due to the glycosylation.

PROPERTIES

AA Sequence	<p>S N S L C M D E K Q I T Q N H S K V L A E V N I S W P V Q M A R N A V L C C P P</p> <p>I E F R N L I V I T W E I I L R G Q P S C T K T Y R K D T N E T K E T N C T D E</p> <p>R I T W V S T P D Q N S D L Q I H P V A I T H D G Y Y R C I M A T P D G N F H R</p> <p>G Y H L Q V L V T P E V T L F E S R N R T A V C K A V A G K P A A Q I S W I P A</p> <p>G D C A P T E Q E Y W G N G T V T V K S T C H W E G H N V S T V T C H V S H L T</p> <p>G N K S L Y I E L L P V P G A K K S A K L</p>
Biological Activity	<p>1. Immobilized Cynomolgus CD200R at 2 µg/mL (100 µL/well) can bind Rhesus macaque CD200. The ED₅₀ for this effect is 9.602 ng/mL.</p> <p>2. Immobilized Cynomolgus CD200R at 0.5 µg/mL (100 µL/well) can bind Rhesus macaque CD200. The ED₅₀ for this effect is ≤24 ng/mL.</p>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	CD200R1 is an Ig superfamily transmembrane glycoprotein expressed on the surface of myeloid cells; it can also be induced
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in certain T-cell subsets. CD200R1 interacts with CD200, which is also an Ig superfamily transmembrane glycoprotein, to down regulate myeloid cell functions. 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. The CD200:CD200R1 inhibitory signaling pathway has been implicated in playing a prominent role in limiting inflammation in a wide range of inflammatory diseases. CD200R1 signaling inhibits the expression of proinflammatory molecules including tumor necrosis factor, interferons, and inducible nitric oxide synthase in response to selected stimuli^[1].

Caution: Product has not been fully validated for medical applications. For research use only.

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