

CD200R1 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P77599
Synonyms:	CD200R; CRTR2; MOX2R; OX2R; CD200 R1; CD200 receptor 1; HCRTR2; MOX2 receptor
Species:	Human
Source:	HEK293
Accession:	Q8TD46 (A27-L266)
Gene ID:	131450
Molecular Weight:	53.7 kDa

PROPERTIES

Biological Activity	Measured by its binding ability in a functional ELISA. When Human CD200 is immobilized at 0.5 µg/mL (100 µL/well), Human CD200 R1 binds with an EC ₅₀ of 26.6 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
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.
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, an inhibitory receptor, acts as a pivotal modulator by binding to the CD200/OX2 cell surface glycoprotein. Its regulatory role extends to limiting inflammation through the suppression of pro-inflammatory molecules, including TNF- α , interferons, and inducible nitric oxide synthase (iNOS), in response to specific stimuli. Intriguingly, CD200R1 exhibits comparable affinity and kinetics when binding to the Human herpesvirus 8 K14 viral CD200 homolog, mirroring its interaction with the host CD200. The interaction between CD200 and CD200R1 is facilitated through their respective N-terminal Ig-like domains, emphasizing the significance of this molecular interplay. Moreover, CD200R1 engages with the Human herpesvirus 8 vOX2 protein, further expanding its versatile interactions in cellular processes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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