

Mouse CD200 R1/CRTR2 Protein

Cat. No. CD2-MM4R1

Description

Source	Recombinant Mouse CD200 R1/CRTR2 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Thr26-Pro238.
Accession	Q9ES57
Molecular Weight	The protein has a predicted MW of 24.21 kDa. Due to glycosylation, the protein migrates to 55-65 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

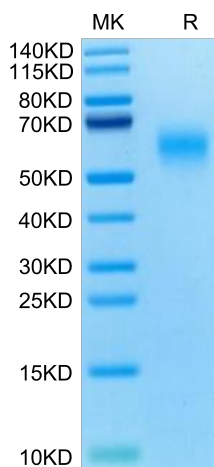
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

CD200Fc, a chimeric molecule including the extracellular domain of CD200 and a murine IgG2a Fc region, regulates immune responses following engagement of a cell surface receptor, CD200R, expressed on cells of the myeloid and T cell lineage. A recent report focused attention on a family of CD200Rs, but concluded that only one member used CD200 as its ligand.

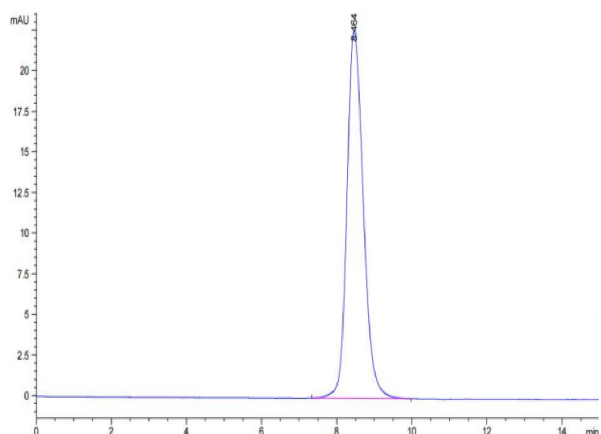
Assay Data

Bis-Tris PAGE



Mouse CD200 R1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



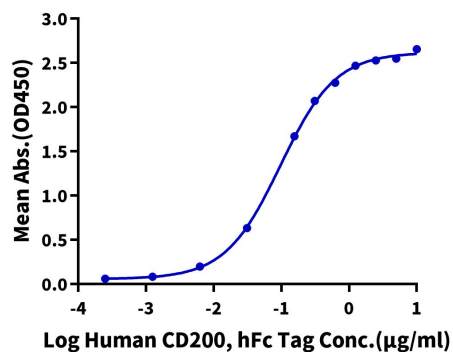
The purity of Mouse CD200 R1 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

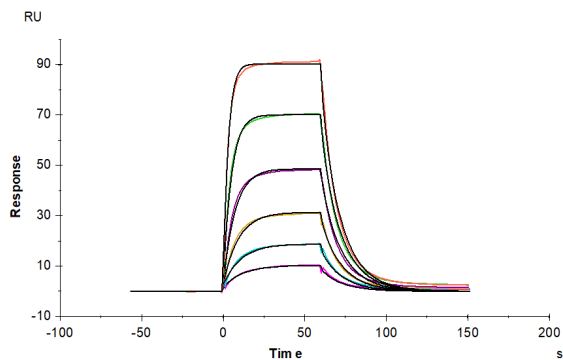
Mouse CD200 R1, His Tag ELISA

0.5µg Mouse CD200 R1, His Tag Per Well



Immobilized Mouse CD200R1, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human CD200, hFc Tag with the EC50 of 96.7ng/ml determined by ELISA.

SPR Data



Mouse CD200 R1, His Tag immobilized on CM5 Chip can bind Mouse CD200, His Tag with an affinity constant of 1.19 µM as determined in SPR assay (Biacore T200).