

For Research Use Only

Recombinant Mouse CD200R1 protein (His tag)



Catalog Number: Eg0988

Basic Information

Species:

Mouse

Purity:

>95 %, SDS-PAGE

Tag:

His tag

EC50:

5-19 ng/mL

Technical Specifications

Purity:

>95 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/μg protein, LAL method

Source:

HEK293-derived Mouse CD200R1 protein Thr26-Pro238 (Accession# Q9ES57) with a His tag at the C-terminus.

GeneID:

57781

Accession:

Q9ES57

Predicted Molecular Mass:

23.9 kDa

SDS-PAGE:

40-55 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 Mouse CD200R1 (His tag) at 1 μg/mL (100 μL/well) can bind Mouse CD200 (hFc tag) with a linear range of 5-19 ng/mL.

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. 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 ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Cell surface glycoprotein CD200 receptor 1 (CD200R1), also named as CD200R, CRTR2, MOX2R and OX2R, belongs to the CD200R family. It is a type I transmembrane glycoprotein containing two Ig-like domains in the extracellular region, a transmembrane and a cytoplasmic domain. CD200R1 is an inhibitory receptor for the CD200/OX2 cell surface glycoprotein. CD200 is expressed on a variety of cells of hematopoietic and non-hematopoietic origin, while CD200R1 is primarily expressed by myeloid and T cell lineage. The CD200-CD200R interaction plays a role in immunosuppression and suppression of anti-tumor immune responses.

References

1. Gavin J Wright, et al. (2003). J Immunol. 171(6):3034-46.
2. Reginald Górczynski, et al. (2004). J Immunol. 172(12):7744-9.
3. TP Rygiel, et al. (2012). Oncogene. 31(24):2979-88.

Synonyms

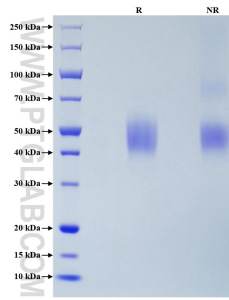
CD200R1, CD200 receptor 1, CD200R, Mox2r, OX2R

For technical support and original validation data for this product please contact

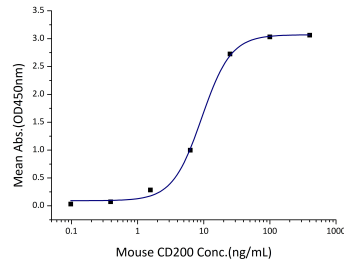
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Selected Validation Data



Purity of Recombinant Mouse 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.



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