

Recombinant Cynomolgus Fc gamma RIIA/CD32a Protein

Catalog No.: RP02641 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Cynomolgus	102143568	Q8SPW4-1

Tags

C-His

Synonyms

CD32MGC23887; CDw32fc-gamma-RIIa;
Fc gamma RIIA; FCG2; Fc-gamma-RIIa;
FcGR; FCGR2; FCGR2A; FCGR2A1;
FcgRIIA; FCRIIA; fcRII-a;
IGFR2MGC30032; IgG Fc receptor II-a;
FCG2; CD32A

Product Information

Source

HEK293 cells

Purification

> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Endotoxin

Less than 1EU per µg by the LAL method.

Formulation

Reconstitution

Centrifuge the tube before opening.
Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.
Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

The Fc gamma Rs have been divided into three classes based on close relationships in their extracellular domains; these groups are designated Fc gamma RI (also known as CD64), Fc gamma RII (CD32), and Fc gamma RIII (CD16). Each group may be encoded by multiple genes and exist in different isoforms depending on species and cell type. The CD64 proteins are high affinity receptors (~10e-8-10e-9 M) capable of binding monomeric IgG, whereas the CD16 and CD32 proteins bind IgG with lower affinities (~10e-6-10e-7 M) only recognizing IgG aggregates surrounding multivalent antigens.

Basic Information

Description

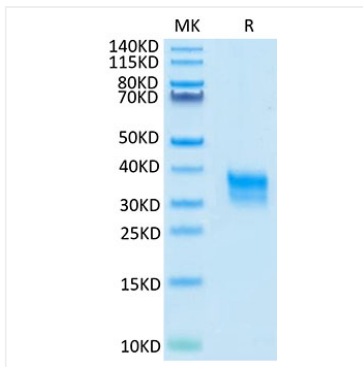
Recombinant Cynomolgus Fc gamma RIIA/CD32a Protein is expressed from Expi293 with His tag at the C-terminal. It contains Gln28-Pro208.

Bio-Activity

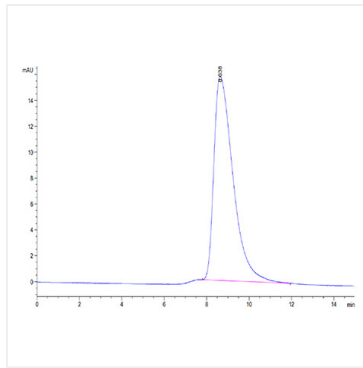
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
Avoid repeated freeze/thaw cycles.

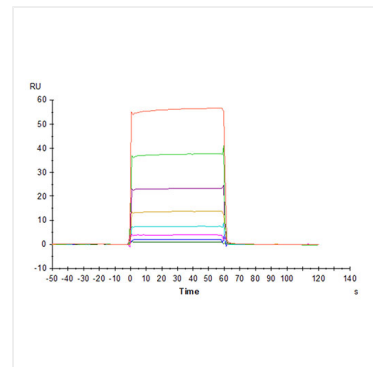
Validation Data



Cynomolgus Fc gamma RIIA on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Cynomolgus Fc gamma RIIA is greater than 95% as determined by SEC-HPLC.



Rituximab captured on CM5 Chip via Protein A can bind Cynomolgus Fc gamma RIIA, His Tag with an affinity constant of $3.65 \mu\text{M}$ as determined in SPR assay (Biacore T200).