

Biotinylated Recombinant Human Fc gamma RI/FCGR1/CD64 Protein

Catalog No.: RP00483B Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 2209 P12314-1

Tags C-His&Avi

Synonyms

CD64; CD64a; Fc gamma RI; FCG1; Fcgamma RIA; FCGR1; FcgRI; FCRI; FcRIA; FLJ18345; FCGR1A; IGFR1; Fcr; Fcgr; FCE1A; FcERI

Product Information

Source Purification HEK293 cells ≥ 95 % as

determined by SDS-PAGE;≥ 95 % as determined by HPLC.

Calculated MW Observed MW

33.5 kDa 55-68 kDa

Endotoxin

< 1 EU/ μg of the protein by LAL method.

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 vial 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 stablizer (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.

Basic Information

Description

Biotinylated Recombinant Human Fc gamma RI/FCGR1/CD64 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln16-Pro288) of Human Fc gamma RI/CD64 (Accession #P12314-1) fused with a C-His&Avi tag at the C-terminus.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

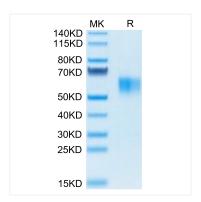
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

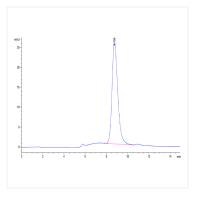
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

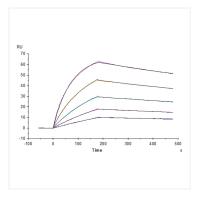
Validation Data



Biotinylated Recombinant Human Fc gamma RI/FCGR1/CD64 Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Biotinylated Human Fc gamma RI is greater than 95% as determined by SEC-HPLC.



Biotinylated Human Fc gamma RI, His-Avi Tag captured on CM5 Chip via Anti-His Antibody can bind Trastuzumab with an affinity constant of 0.91 nM as determined in SPR assay (Biacore T200).