

Recombinant Human FCGR3A Protein, V176F, Gly17-Gln208, C-6xHis tagged

Cat. No. FCGR3A-045H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant Human FCGR3A Protein, Gly17-Gln208, with a C-terminal 6-His tag was expressed in Human embryonic kidney cell.

Species

Human

Source

HEK293

ProteinLength

Gly17-Gln208

Description

This gene encodes a receptor for the Fc portion of immunoglobulin G, and it is involved in the removal of antigen-antibody complexes from the circulation, as well as other responses, including antibody dependent cellular mediated cytotoxicity and antibody dependent enhancement of virus infections. This gene (FCGR3A) is highly similar to another nearby gene (FCGR3B) located on chromosome 1. The receptor encoded by this gene is expressed on natural killer (NK) cells as an integral membrane glycoprotein anchored through a transmembrane peptide, whereas FCGR3B is expressed on polymorphonuclear neutrophils (PMN) where the receptor is anchored through a phosphatidylinositol (PI) linkage. Mutations in this gene are associated with immunodeficiency 20, and have been linked to susceptibility to recurrent viral infections, susceptibility to systemic lupus erythematosus, and alloimmune neonatal neutropenia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

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| Bio-activity | Measured by its binding ability in a functional ELISA. When Recombinant Human Fc gamma RIIIa/CD16a (V176F) was immobilize on a Ms x PolyHis coated plate, it binds biotinylated Human IgG. The concentration of biotinylated Human IgG that produces 50% of the optimal binding response is approximately 0.5-2.5 µg/mL. |
| Molecular Mass | Predicted Molecular Mass: 23 kDa SDS-PAGE: 43-58 kDa, reducing conditions |
| Endotoxin | <0.10 EU/µg of the protein by the LAL method. |
| Purity | >95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining. |
| N-terminal Sequence Analysis | Gly17 & Met18 |
| Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution. |
| Storage Buffer | Lyophilized from a 0.2 µm filtered solution in sterile PBS. |
| Shipping | The product is shipped at ambient temperature. |
| Reconstitution | Reconstitute at 100 µg/mL in PBS. |

GENE INFORMATION

Gene Name FCGR3A Fc gamma receptor IIIa [Homo sapiens (human)]

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| Official Symbol | FCGR3A |
| Synonyms | FCGR3A; Fc gamma receptor IIIa; CD16; FCG3; CD16A; FCGR3; IGFR3; IMD20; FCR-10; FCRIII; CD16-II; FCGRIII; FCRIIIA; FcGRIIIA; low affinity immunoglobulin gamma Fc region receptor III-A; CD16a antigen; Fc fragment of IgG receptor IIIa; Fc fragment of IgG, low affinity III, receptor for (CD16); Fc fragment of IgG, low affinity IIIa, receptor (CD16a); Fc gamma receptor III-A; Fc-gamma RIII-alpha; Fc-gamma receptor III-2 (CD 16); Fc-gamma receptor IIIb (CD16); FcgammaRIIIA; IgG Fc receptor III-A; igG Fc receptor III-2; immunoglobulin G Fc receptor III; low affinity immunoglobulin gamma Fc region receptor III-A/III-B recombinant; low affinity immunoglobulin gamma Fc region receptor III-B; low affinity immunoglobulin gamma receptor III-a Fc fragment; neutrophil-specific antigen NA |
| Gene ID | 2214 |
| mRNA Refseq | NM_000569 |
| Protein Refseq | NP_000560 |
| MIM | 146740 |
| UniProt ID | P08637 |

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