

Recombinant Human FCGR3A Protein, Gly17-Gln208, C-6×His tagged

Cat. No. FCGR3A-22H Lot. No. (See product label)

SPECIFICATION

Product Overview

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

Species

Human

Source

Mouse myeloma cell

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 ability to bind human IgG with an estimated Kd <50 nM.
Molecular Mass	Predicted Molecular Mass 22.6 kDa SDS-PAGE 40-50 kDa, reducing conditions
Endotoxin	<0.10 EU/μg of the protein by the LAL method.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
N-terminal Sequence Analysis	Gly17
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 PBS.
Shipping	The product is shipped at ambient temperature.
Reconstitution	Reconstitute at 100 μg/mL in sterile PBS.

GENE INFORMATION

Gene Name	FCGR3A Fc fragment of IgG, low affinity IIIa, receptor (CD16a) [Homo sapiens (human)]
Official Symbol	FCGR3A
Synonyms	FCGR3A; Fc fragment of IgG, low affinity IIIa, receptor (CD16a); Fc fragment of IgG,

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low affinity IIIa, receptor for (CD16) , FCG3, FCGR3; low affinity immunoglobulin gamma Fc region receptor III-A; CD16; CD16a; FcgammaRIIIA; CD16a antigen; fc-gamma RIII; Fc-gamma RIIIa; Fc-gamma RIII-alpha; igG Fc receptor III-2; Fc gamma receptor III-A; Fc-gamma receptor IIIb (CD16); neutrophil-specific antigen NA; Fc-gamma receptor III-2 (CD 16); immunoglobulin G Fc receptor III; Fc fragment of IgG, low affinity III, receptor for (CD16); FCG3; CD16A; FCGR3; IGFR3; FCR-10; FCRIII; FCGRIII; FCRIIIA;

Gene ID [2214](#)

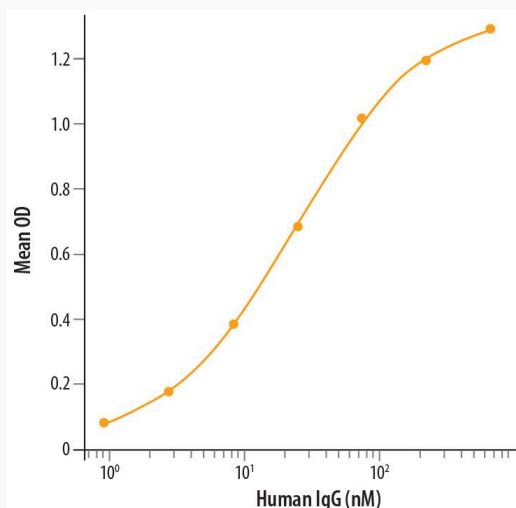
mRNA Refseq [NM_000569](#)

Protein Refseq [NP_000560](#)

MIM [146740](#)

UniProt ID [P08637](#)

Binding Activity

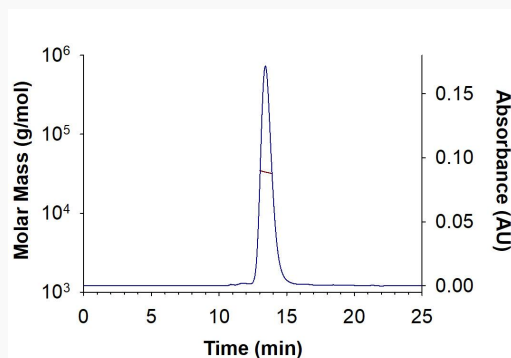


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SEC-MALS



SEC-MALS Data	Result
Retention Time	13.0 - 13.9
MW - Predicted (Monomer)	22.6 kDa
MW - MALS	33.1 kDa
Polydispersity	1.001
System Suitability: BSA Monomer 66.4 ± 3.32 kDa	Pass

SDS-PAGE

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