9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

FCGR3A Human, HEK

CD16a Human Recombinant, HEK
CDA0139

Product Overview

Name	FCGR3A Human, HEK
Description	
CD16a Human Recombinant, HEK	
Accession (Primary)	P08637
Synonyms	
Low affinity immunoglobulin gamma Fc region receptor III-A, CD16a antigen, Fc-gamma, RIII-alpha, Fc-gamma RIII, Fc-gamma RIIIa, FcRIII, FcRIIIa, FcR-10, IgG Fc receptor III-2, CD16a, FCGR3A, FCG3, FCGR3, IGFR3, CD16, FCGRIII.	
Introduction	
Low affinity immunoglobulin gamma Fc region receptor III-A (FCGR3A) is a receptor for the Fc portion of immunoglobulin G, and is involved in the elimination of antigen-antibody complexes from the circulation, as well as other antibody-dependent responses. FCGR3A needs to associate with the gamma subunit of Fc epsilon. The FCGR3A receptor is expressed on natural killer (NK) cells as an integral membrane glycoprotein anchored through a transmembrane peptide, while FCGR3B is expressed on polymorphonuclear neutrophils (PMN) where the receptor is anchored through a phosphatidylinositol (PI) linkage. In addition, FCGR3A is expressed on macrophages, subpopulation of T-cells, immature thymocytes and placental trophoblasts. FCGR3A mediates antibody-dependent cellular cytotoxicity (ADCC) and other antibody-dependent responses, such as phagocytosis. FCGR3A gene mutations are linked with susceptibility to recurrent viral infections, susceptibility to systemic lupus erythematosus, and alloimmune neonatal neutropenia.	
Source	
HEK293 Cells	
Physical Appearance	
Sterile filtered colorless solution.	
Formulation	
FCGR3A protein solution (0.5mg/ml) contains Phosphate buffered saline (pH7.4) and 10% glycerol.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.	

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Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino acid sequence

MRTEDLPKAV VFLEPQWYRV LEKDSVTLKC QGAYSPEDNS TQWFHNESLI SSQASSYFID AATVDDSGEY

RCQTNLSTLS DPVQLEVHIG WLLLQAPRWV FKEEDPIHLR CHSWKNTALH KVTYLQNGKG RKYFHHNSDF

YIPKATLKDS GSYFCRGLFG SKNVSSETVN ITITQGLAVS TISSFFPPGY Q HHHHHH .

Biological Activity

Determined by the binding ability in a functional ELISA with Human IgG1 Fc (cat# pro-2763).

Precautions

FCGR3A Human, HEK is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P08637)