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

FCGR3A Human

CD16a Human Recombinant
CDA0138

Product Overview

Name	FCGR3A Human
Description	
CD16a Human Recombinant	
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	
E.coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
FCGR3A protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1M Urea 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 90% as determined by SDS-PAGE.

Amino acid sequence

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSH MRT EDLPKAVVFL EPQWYRVLEK DSVTLKCQGA YSPEDNSTQW FHNESLISSQ ASSYFIDAAT VDDSGEYRCQ TNLSTLSDPV QLEVHIGWLL LQAPRWVFKE EDPIHLRCHS WKNTALHKVT YLQNGKGRKY FHHNSDFYIP KATLKDSGSY FCRGLFGSKN VSSETVNITI TQGLAVSTIS SFFPPGYQ.

Precautions

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

Target Information: (P08637)