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FCGR3A Human

Catalog #:PRPS-1157

For research use only.

Description:FCGR3A Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 228 amino acids (18-208 a.a) and having a molecular mass of 26kDa.FCGR3A is fused to a 37 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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.

Source:E.coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMRT EDLPKAVVFL EPQWYRVLEK DSVTLKCQGA YSPEDNSTQW FHNESLISSQ ASSYFIDAAT VDDSGEYRCQ TNLSTLSDPV QLEVHIGWLL LQAPRWVFKE EDPIHLRCHS WKNTALHKVT YLQNGKGRKY FHHNSDFYIP KATLKDSGSY FCRGLFGSKN VSSETVNITI TQGLAVSTIS SFFPPGYQ.

Purity: Greater than 90% as determined by SDS-PAGE.

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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

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 throμgh a transmembrane peptide, while FCGR3B is expressed on polymorphonuclear neutrophils (PMN) where the receptor is anchored throμgh 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.

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