

## 32-3822: FCGR3A Recombinant Protein

### Alternative Name :

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.

### Description

Source : E.coli. 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. 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.

### Product Info

<b>Amount :</b>	20 µg
<b>Purification :</b>	Greater than 90% as determined by SDS-PAGE.
<b>Content :</b>	FCGR3A protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1M Urea and 10% glycerol.
<b>Storage condition :</b>	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.
<b>Amino Acid :</b>	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMRT EDLPKAVVFL EPQWYRVLEK DSVTLKCQGA YSPEDNSTQW FHNESLISSQ ASSYFIDAAT VDDSGEYRCQ TNLSTLSDPV QLEVHIGWLL LQAPRWVFKE EDPIHLRCHS WKNTALHKVT YLQNGKGRKY FHHNSDFYIP KATLKDSGSY FCRGLFGSKN VSSETVNITI TQGLAVSTIS SFFPPGYQ.

