

HUMAN FCGR3A PROTEIN (F176V), HIS TAG

Cat.#: 11192

Product Name: Human FCGR3A Protein (F176V)

Size: 10 µg, 50 µg and 100 µg

Synonyms: FCGR3A;D16A;CG3;CGR3;GFR3

Target: FCGR3A

UNIPROT ID: P08637

Description: Recombinant human FCGR3A protein(F176V) with C-terminal 6xHis tag

Background: 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 other antibody-dependent responses. 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 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.

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 22.3 kDa after removal of the signal peptide.

Molecular Characterization: FCGR3A(Gly17-Gly206)(F176V) 6×His tag

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

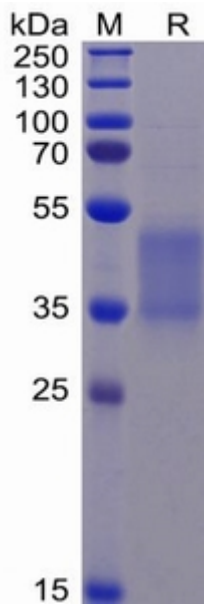


Figure 1. Human FCGR3A Protein (F176V), His Tag on SDS-PAGE under reducing condition.