



# Recombinant Human CD16a/FCGR3A Protein (176 Phe, His Tag)

Catalog No. PKSH030289

Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### **Description**

**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;CD16A;FCG3;FCGR3;IGFR3;CD16;CD16A

**Species Expression Host** CHO Cells Met 1-Gln 208 **Sequence** Accession P08637-1 23.3 kDa Calculated Molecular Weight Tag C-His

**Bioactivity** Not validated for activity

#### **Properties**

**Purity** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin** < 1.0 EU per µg of the protein as determined by the LAL method.

Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to **Storage** 

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Lyophilized from sterile PBS, pH 7.4 **Formulation** 

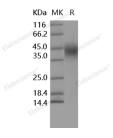
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## **Background**

#### For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

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## **Elabscience Bionovation Inc.**



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The Fc receptor with low affinity for IgG (FCGR3; or CD16) is encoded by 2 nearly identical genes; FCGR3A and FCGR3B; resulting in tissue-specific expression of alternative membrane-anchored isoforms. FCGR3A; it is also known as CD16a; encodes a transmembrane protein expressed on activated monocytes/macrophages; natural killer (NK) cells; and a subset of T cells. CD16a / FCGR3A is a receptor expressed on NK cells that facilitates antibody dependent cellular cytotoxicity (ADCC) by binding to the Fc portion of various antibodies. CD16a / FCGR3A also has a broader function. CD16a / FCGR3A is directly involved in the lysis of some virus-infected cells and tumor cells by NK cells; independent of antibody binding. Cross-linking of CD16a / FCGR3A on NK cells resulted in increased intracellular Ca2+ levels and a cascade of biochemical events similar to those activated by the T cell receptor. CD16a / FCGR3A on human NK cells is a lysis receptor that mediates the direct killing of some virus infected and tumor cells; independent of antibody ligation.

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