

# Human CD16a (176V) Protein (In Vivo Grade, Ultra-Low Endotoxin)

**Product Code:** ICH3015

## More Information

**Species Reactivity:** Human

**Target:** Human CD16a (176V) Protein

**Host:** Human embryonic kidney (HEK) 293 cells.

**product name H2:** Human CD16a (176V) Protein (In Vivo Grade, Ultra-Low Endotoxin)

**UniProt:** P08637

**Shipping Conditions:** Ambient

**background:** Carrying the higher-affinity 176V polymorphism, this allotype of human CD16a (FcγRIIIa) is central to NK-cell and macrophage antibody-dependent cellular cytotoxicity and is widely studied because the V/F polymorphism modulates clinical antibody responses. The recombinant CD16a (176V) ectodomain is expressed in HEK 293 cells and validated for SPR, BLI and ELISA, enabling precise Fc binding kinetics and side-by-side comparison of Fc engineering strategies. Offered for research use only as an in vivo grade, ultra-low-endotoxin preparation, it is manufactured in scalable milligram (mg) to gram (g) quantities so that bulk and high-throughput laboratories can profile allotype-specific Fc interactions reproducibly.

**Other names:** Human Fc gamma RIIIa, CD16A, FCGR3A, FCGRIIIA, FCR3A, FCRIIIA, IGFR3A, IGFRIIIA

**Specificity:** The sequence of the extracellular domain of human CD16a (Gly 17-Gln 208) was fused with a C-terminal tag consisting of the AVI tag, TEV protease recognition sequence and a 10-His tag.

**Formulation:** Lyophilized from sterile PBS, pH 7.4. No preservatives or cryoprotectants have been added. To obtain a final concentration of 1 mg/ml reconstitute 0.25 mg vials with



0.25 ml water and 1.0 mg vials with 1.0 ml water.

**Purity:** >95% monomer purity as determined by SDS-PAGE and SEC-HPLC.

**Endotoxin:** 1.0 EU per mg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable at ambient temperature for at least 2 weeks. If the protein is not to be used immediately then the protein should be stored in lyophilized form at -20 °C for up 12 months. Once the protein has been reconstituted we recommen

**Applications:** SPR, BLI, ELISA

**Use:** Products are for research use only. Not for use in diagnostic or therapeutic procedures.