

Pig CD16a Protein (In Vivo Grade, Ultra-Low Endotoxin)

Product Code: ICH3023

More Information

Species Reactivity: Pig (*sus scrofa domesticus*)

Target: Pig CD16a Protein

Host: Human embryonic kidney (HEK) 293 cells

product name H2: Pig CD16a Protein (In Vivo Grade, Ultra-Low Endotoxin)

UniProt: Q28942

Shipping Conditions: Ambient

background: CD16a (FcγRIIIa) is the activating Fc receptor that underpins NK-cell and macrophage antibody-dependent cytotoxicity, and its porcine equivalent is valuable for swine-based translational and xenotransplantation research. This recombinant pig CD16a ectodomain is expressed in HEK 293 cells and validated for SPR, BLI and ELISA, providing a defined reagent for cross-species Fc binding kinetics and ADCC-related characterization. Supplied for research use only in an in vivo grade, ultra-low-endotoxin format, it is produced at scalable milligram (mg) to gram (g) scale, giving bulk and high-throughput laboratories the quantities needed for systematic porcine Fc receptor studies.

Other names: CD16, CD16A, FCGR3, FCGR3A, FCGRIII, FCGRIIIA, FCR3, FCR3A, FCRIII, FCRIIIA, IGFR3, IGFR3A, IGFRIII, IGFRIIIA, Fc gamma R3, Fc gamma R3a, Fc gamma RIII, Fc gamma RIIIA, Fcg R3, Fcg R3a, Fcg RIII, Fcg RIIIA

Specificity: The sequence of the extracellular domain of porcine CD16a (Ala 20-Gln 209) 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.