

InnoCyto Inc.

15375 Barranca Pkwy, Suite I-103 Irvine, CA 92618

Technical Data Sheet

Human CD64 Protein (C-His-Avi)

Catalog Number: 800401, 800402

Size: 25 ug, 100 ug

Target Name: CD64, FCGR1A, FCG1, FCGR1, IGFR1

Regulatory Status: RUO

Product Details

Application: ELISA, BLI Format: Liquid, Purified Expression Host: CHO

Species: Human

Sources: Human CD64 protein (Accession Number P12314) (Gln16-Thr287) with C-terminus His tag

and Avi tag is expressed in CHO cells.

Accession Number: P12314

Molecular Weight: The 307 amino acid protein has a predicted molecular weight of 34.2kDa. The

protein migrates at approximately 50-60 kDa on SDS-PAGE with DTT-reduced conditions.

Affinity Tag: C-His-Avi

Purity: >85% based on SDS-PAGE under reducing condition

Formulation: 1xPBS buffer, pH7.4, 0.22 µm filtered

Endotoxin level: Not tested

Protein Concentration: 25µg size is bottled at 0.2mg/mL concentration. 100 µg size is supplied at a

lot-specific concentration.

Storage and Handling: Briefly centrifuge the vial upon receipt. An unopened vial can be stored at 4° C for up to 2 weeks, or at -20°C or below for up to six months. The protein may be further diluted to 0.1 mg/mL using 0.22 μ m-filtered PBS buffer (pH 7.4). For long-term storage, the diluted stock solution should be aliquoted and stored at <= -70° C to minimize freeze-thaw cycles. If additional dilution is required, carrier proteins such as FBS or BSA should be added to maintain protein stability.

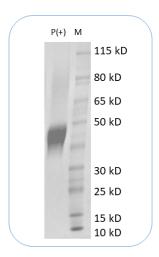
Background Information

CD64, also known as Fc?RI or FcR I, is a 72 kDa type I glycoprotein and a member of the immunoglobulin superfamily. This high-affinity IgG Fc receptor is predominantly expressed on monocytes, macrophages, dendritic cells, and activated granulocytes. Its expression can be upregulated by IFN-? stimulation, enhancing its role in immune responses. CD64 binds IgG immune complexes and is involved in several crucial immune functions, including antigen capture, phagocytosis of IgG/antigen complexes, and antibody-dependent cellular cytotoxicity (ADCC). By mediating these processes, CD64 contributes to the activation of innate immune responses and the clearance of immune complexes.

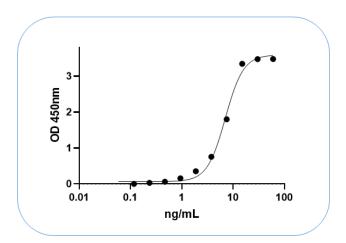


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Product Data



Recombinant human CD64 (C-His-Avi) protein on SDS-PAGE under reducing condition. The gel was stained for 1 hour with BlinkBlue (catalog 700102). The purity of this protein appears to be greater than 85%.



Human IgG1 isotype is coated at 1 ug_mL (100ng_well). Human CD64 can bind human IgG1 in the dose dependent manner. The ED50 is about 3-10 ng_mL.