

InnoCyto Inc.

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

Technical Data Sheet

PE Conjugated Human CD64 Protein (C-His)

Catalog Number: 800501, 800502

Size: 25 ug, 100 ug

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

Regulatory Status: RUO

Product Details

Application: FC
Format: Liquid, PE
Expression Host: CHO

Species: Human

Sources: Recombinant human CD64 (Gln16-Thr287) with a C-terminal His tag is expressed in CHO

cells and conjugated to PE. **Accession Number:** P12314

Molecular Weight: The protein has a predicted molecular weight of 32kDa. Under DTT-reducing

conditions, it migrates at approximately 50-60 kDa on SDS-PAGE prior to conjugation.

Affinity Tag: C-His

Formulation: 1xPBS buffer, pH7.4, 0.09% NaN3 with a carrier protein

Endotoxin level: Not tested

Protein Concentration: 25μg size is bottled at 0.1mg/mL concentration. 100 μg size is bottled at lot

specific concentration.

Storage and Handling: Briefly centrifuge the vial upon receipt. An unopened vial may be stored at

2-8°C for up to six months.

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.