

CD64 Protein, Human (Biotinylated, 273a.a, HEK293, His-Avi)

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| Cat. No.: | HY-P78132 |
| Synonyms: | CD64; CD64a; Fc gamma RI; FCG1; Fc-gamma RIA; FCGR1; FcgRI; FCRI; FcRIA; FLJ18345; FCGR1A; IGFR1; Fcr; Fcgr; FCE1A; FcERI |
| Species: | Human |
| Source: | HEK293 |
| Accession: | P12314 (Q16-P288) |
| Gene ID: | 2209 |
| Molecular Weight: | 55-68 kDa |

PROPERTIES

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| Biological Activity | Measured by its binding ability in SPR assay. Biotinylated Human Fc gamma RI, His-Avi Tag captured on CM5 Chip via Anti-his antibody can bind Trastuzumab with an affinity constant of 5.00 nM. |
| Appearance | Lyophilized powder. |
| Formulation | Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization. |
| Endotoxin Level | <1 EU/ μ g, determined by LAL method. |
| Reconstitution | It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O. |
| Storage & Stability | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| Shipping | Room temperature in continental US; may vary elsewhere. |

DESCRIPTION

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| Background | CD64 protein is a high affinity receptor for the Fc region of immunoglobulins gamma. It plays a role in both innate and adaptive immune responses. CD64 mediates IgG effector functions on monocytes, triggering antibody-dependent cellular cytotoxicity (ADCC) against virus-infected cells. It interacts with IGHG1 and forms a functional signaling complex with FCERG1. CD64 also interacts with FLNA, preventing degradation of FCGR1A. Additionally, it interacts with EPB41L2, LAT, PPL, HCK, and LYN, contributing to its diverse functions in immune regulation. |
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA