

## CD64 Protein, Human (CHO, C-His)

Cat. No.:	HY-P72925
Synonyms:	High affinity immunoglobulin gamma Fc receptor I; Fcgr1; FcRI; CD64
Species:	Human
Source:	CHO
Accession:	P12314 (Q16-P288)
Gene ID:	2209
Molecular Weight:	45-60 kDa

### PROPERTIES

AA Sequence	<pre> MWFLTTLLLW   VPVDGQVDTT   KAVITLQPPW   VSVFQEETVT LHCEVLHLPG   SSSTQWFLNG   TATQTSTPSY   RITSASVND S GEYRCQRGLS   GRSDPIQLEI   HRGWLLQVS    SRVFTEGEPL ALRCHAWKDK   LVYNVLYYRN   GKAFKFFHWN   SNLTI LKTN I SHNGTYHCSG   MGKHRYTSAG   ISVTVKELFP   APVLNASVTS PLLEGNLVTL   SCETKLLLR   PGLQLYFSFY   MGSKTLRGRN TSSEYQILTA   RREDSGLYWC   EAATEDGNVL   KRSPELELQV LGLQLPTP </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> 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

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,
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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.**

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