

## CD64 Protein, Human (HEK293, His)

Cat. No.:	HY-P70669
Synonyms:	Ig gamma-4 chain C region,IgG4 Fc
Species:	Human
Source:	HEK293
Accession:	P12314 (Q16-P288)
Gene ID:	2209
Molecular Weight:	50-70 kDa

### PROPERTIES

AA Sequence	<pre> Q V D T T K A V I T   L Q P P W V S V F Q   E E T V T L H C E V   L H L P G S S S T Q W F L N G T A T Q T   S T P S Y R I T S A   S V N D S G E Y R C   Q R G L S G R S D P I Q L E I H R G W L   L L Q V S S R V F T   E G E P L A L R C H   A W K D K L V Y N V L Y Y R N G K A F K   F F H W N S N L T I   L K T N I S H N G T   Y H C S G M G K H R Y T S A G I S V T V   K E L F P A P V L N   A S V T S P L L E G   N L V T L S C E T K L L L Q R P G L Q L   Y F S F Y M G S K T   L R G R N T S S E Y   Q I L T A R R E D S G L Y W C E A A T E   D G N V L K R S P E   L E L Q V L G L Q L   P T P           </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	<p>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.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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