

CD64 Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702279
Synonyms:	High affinity immunoglobulin gamma Fc receptor I; Fc-gamma RI; FcRI; Fc-gamma RIA; FcgammaRIa; CD antigen CD64
Species:	Human
Source:	E. coli Cell-free
Accession:	P12314 (Q16-T374)
Gene ID:	2209
Molecular Weight:	46.9 kDa

PROPERTIES

AA Sequence

QVDTTKAVIT	LQPPWVSVFQ	EETVTLHCEV	LHLPGSSSTQ
WFLNGTATQT	STPSYRITSA	SVNDSGEYRC	QRGLSGRSDP
IQLEIHRGWL	LLQVSSRVFT	EGEPLALRCH	AWKDKLVYNV
LYYRNGKAFK	FFHWNSNLTI	LKTNI SHNGT	YHCSGMGKHR
YTSAGISVTV	KELFPAPVLN	ASVTSPLLEG	NLVTLS CETK
LLLQRPGLQL	YFSFYMGSKT	LRGRNTSSEY	QILTARREDS
GLYWCEAAATE	DGNVLKRSPE	LELQVLGLQL	PTPVWFHVL F
YLAVGIMFLV	NTVLWVTIRK	ELKRKKKWDL	EISLDSGHEK
KVIVSSSLQEDR	HLEEELKQCE	QKEEQ LQEGV	HRKEPQGAT

Appearance

Lyophilized powder.

Formulation

Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

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 ddH₂O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.

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, HCK, and LYN, contributing to its diverse functions in immune regulation.

Caution: Product has not been fully validated for medical applications. For research use only.

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