

CD64 Protein, Mouse (273a.a, HEK293, His)

Cat. No.:	HY-P72714
Synonyms:	High affinity immunoglobulin gamma Fc receptor I; Fcgr1; FcRI; CD64
Species:	Mouse
Source:	HEK293
Accession:	P26151 (E25-P297)
Gene ID:	14129
Molecular Weight:	40-60 kDa

PROPERTIES

AA Sequence	<pre> E V V N A T K A V I T L Q P P W V S I F Q K E N V T L W C E G P H L P G D S S T Q W F I N G T A V Q I S T P S Y S I P E A S F Q D S G E Y R C Q I G S S M P S D P V Q L Q I H N D W L L L Q A S R R V L T E G E P L A L R C H G W K N K L V Y N V V F Y R N G K S F Q F S S D S E V A I L K T N L S H S G I Y H C S G T G R H R Y T S A G V S I T V K E L F T T P V L R A S V S S P F P E G S L V T L N C E T N L L L Q R P G L Q L H F S F Y V G S K I L E Y R N T S S E Y H I A R A E R E D A G F Y W C E V A T E D S S V L K R S P E L E L Q V L G P Q S S A P </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, 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 ₂ 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 emerges as a high-affinity receptor specifically designed for the Fc region of immunoglobulins gamma, playing a pivotal role in both innate and adaptive immune responses. Its dynamic functionality extends to forming a functional signaling complex through interaction with FCERG1. Additionally, CD64 interacts with FLNA, preventing FCGR1A degradation, and engages with EPB41L2, LAT, and PPL in intricate cellular processes. Furthermore, this receptor establishes connections with HCK and LYN, showcasing its versatility and involvement in various signaling cascades critical for immune</p>
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system modulation.

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

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