

CD64 Protein, Rat (HEK293, His)

Cat. No.:	HY-P75388
Synonyms:	High affinity immunoglobulin gamma Fc receptor I; Fcgr1; FcRI; CD64
Species:	Rat
Source:	HEK293
Accession:	NP_001094306 (V17-P285)
Gene ID:	295279
Molecular Weight:	40-42 kDa

PROPERTIES

AA Sequence	<pre>V V N A T K A V V T L Q P P W L S I F Q E E N V T L L C E G P H L G D S S T K W F I N S T A I Q I S T P T Y S I L K A S F K D S G E Y K C Q T G L S M P S D P V Q L E I Y R D W L L L Q T S H R V L T E G E P L A L R C H P W Q N K K V Y N V A F Y R N G E S L D F S Q G S E V T I L K T N L S H S G I Y H C S A M G K K L F K S A G V S V T V K E L F A T P V L R V S L S S P F P E G S L V I L N C E T R L F L Q S P G L R L Y F S F Y V G S K I L E D R S T S S E Y H I P R A E R E D D G S Y W C E V A T E D G R V L K R S T K L E L F G P Q S S D P</pre>
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Rat CD64-his at 10 µg/mL (100 µL/well) can bind biotinylated human IgG1. The ED ₅₀ for this effect is 0.0754 µg/mL.
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	CD64 Protein, characterized by its leukotriene receptor binding activity, plays a crucial role in various biological processes, including the positive regulation of phagocytosis and the sensory perception of pain, as well as the response to epinephrine.
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Situated in membrane rafts, CD64, encoded by the FCGR1A gene, exhibits a biased expression pattern with notable levels in the Spleen (RPKM 177.3), Lung (RPKM 93.7), and nine other tissues. This underlines its significance in immune responses and sensory functions across diverse physiological contexts.

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

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