

## CD93/C1qR1 Protein, Rat (HEK293, His)

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| <b>Cat. No.:</b>         | HY-P75661  |
| <b>Synonyms:</b>         | Complement Component C1q Receptor; CD93; C1qRp; Ly-68; C1qr1 |
| <b>Species:</b>          | Rat  |
| <b>Source:</b>           | HEK293   |
| <b>Accession:</b>        | Q9ET61 (D24-K571)  |
| <b>Gene ID:</b>          | 84398  |
| <b>Molecular Weight:</b> | Approximately 75-90 kDa due to the glycosylation.            |

### PROPERTIES

#### AA Sequence

|                     |                     |                     |                     |
|---------------------|---------------------|---------------------|---------------------|
| D S E A V V C E G T | A C Y T A H W G K L | S A A E A Q H R C N | E N G G N L A T V K |
| S E E E A R H V Q E | A L A Q L L K T K A | P S E T K I G K F W | I G L Q R E K G K C |
| T Y H D L P M K G F | S W V G G G E D T T | Y S N W Y K A S K S | S C I S K R C V S L |
| I L D L S L K P H P | S H L P K W H E S P | C G T P D A P G N S | I E G F L C K F N F |
| K G M C S P L A L G | G P G Q L T Y T T P | F Q A T T S S L K A | V P F A S V A N V V |
| C G D E A E S K T N | Y Y L C K E T T A G | V F H W G S S G P L | C V S P K F G C S F |
| N N G G C Q Q D C F | E G G D G S F R C G | C R P G F R L L D D | L V T C A S R N P C |
| S S N P C T G G G M | C H S V P L S E N Y | T C H C P R G Y Q L | D S S Q V H C V D I |
| D E C E D S P C D Q | E C I N T P G G F H | C E C W V G Y Q S S | G S K E E A C E D V |
| D E C T A A Y S P C | A Q G C T N T D G S | F Y C S C K E G Y I | M S G E D S T Q C E |
| D I D E C L G N P C | D T L C I N T D G S | F R C G C P A G F E | L A P N G V S C T R |
| G S M F S E L P A R | P P Q K E D K G D G | K E S T V P L T E M | P G S L N G S K D V |
| S N R A Q T T D L S | I Q S D S S T A S V | P L E I E V S S E A | S D V W L D L G T Y |
| L P T T S G H S Q P | T H E D S V P A H S | D S D T D G Q K     |                     |

**Biological Activity** Measured by its ability to enhance TNF-alpha secretion by THP 1 human acute monocytic leukemia cells. The ED<sub>50</sub> for this effect is 6.393 µg/mL, corresponding to a specific activity is 156.421 U/mg.

**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<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.

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## DESCRIPTION

### Background

CD93/C1qR1 Protein, identified as a receptor or component of a larger receptor complex, plays a pivotal role in immune recognition and response. It serves as a receptor for C1q, mannose-binding lectin (MBL2), and pulmonary surfactant protein A (SPA), suggesting its involvement in recognizing and interacting with various components of the immune system. CD93/C1qR1 may contribute to the enhancement of phagocytosis in monocytes and macrophages, particularly upon interaction with soluble defense collagens. Additionally, it is implicated in potential roles in intercellular adhesion, emphasizing its multifunctional nature. The interaction with C1QBP suggests a possible association with cell surface C1q, further highlighting the complexity of CD93/C1qR1 in immune-related processes. The diverse interactions and functions of CD93/C1qR1 underscore its significance in orchestrating immune responses and cellular interactions.

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

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