

CD46 Protein, Human (HEK293, His)

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| Cat. No.: | HY-P72723 |
| Synonyms: | Membrane Cofactor Protein; TLX; CD46; MCP; MIC10 |
| Species: | Human |
| Source: | HEK293 |
| Accession: | P15529-11 (C35-D328) |
| Gene ID: | 4179 |
| Molecular Weight: | 50-65 kDa |

PROPERTIES

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| AA Sequence | <pre> C E E P P T F E A M E L I G K P K P Y Y E I G E R V D Y K C K K G Y F Y I P P L A T H T I C D R N H T W L P V S D D A C Y R E T C P Y I R D P L N G Q A V P A N G T Y E F G Y Q M H F I C N E G Y Y L I G E E I L Y C E L K G S V A I W S G K P P I C E K V L C T P P P K I K N G K H T F S E V E V F E Y L D A V T Y S C D P A P G P D P F S L I G E S T I Y C G D N S V W S R A A P E C K V V K C R F P V V E N G K Q I S G F G K K F Y Y K A T V M F E C D K G F Y L D G S D T I V C D S N S T W D P P V P K C L K V S T S S T T K S P A S S A S G P R P T Y K P P V S N Y P G Y P K P E E G I L D S L D </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 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

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| Background | CD46 protein serves as a crucial cofactor for complement factor I, a serine protease responsible for safeguarding autologous cells against complement-mediated damage by cleaving deposited C3b and C4b on host tissue. Beyond its role in complement regulation, CD46 is implicated in the fusion process between spermatozoa and oocytes during fertilization. Additionally, CD46 acts as a costimulatory factor for T-cells, facilitating the differentiation of CD4+ cells into T-regulatory 1 |
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cells. These specialized T-regulatory 1 cells contribute to immune modulation by secreting interleukin-10, thereby playing a pivotal role in suppressing immune responses and preventing autoimmunity.

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

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