

## CD40 Protein, Human (Biotinylated, HEK293, Fc-Avi)

<b>Cat. No.:</b>	HY-P72909
<b>Synonyms:</b>	Tumor Necrosis Factor Receptor Superfamily member 5; Bp50; CD40L Receptor; CDw40; TNFRSF5
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	P25942 (E21-R193)
<b>Gene ID:</b>	958
<b>Molecular Weight:</b>	Approximately 47.7 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>M V R L P L Q C V L    W G C L L T A V H P    E P P T A C R E K Q    Y L I N S Q C C S L</p> <p>C Q P G Q K L V S D    C T E F T E T E C L    P C G E S E F L D T    W N R E T H C H Q H</p> <p>K Y C D P N L G L R    V Q Q K G T S E T D    T I C T C E E G W H    C T S E A C E S C V</p> <p>L H R S C S P G F G    V K Q I A T G V S D    T I C E P C P V G F    F S N V S S A F E K</p> <p>C H P W T S C E T K    D L V V Q Q A G T N    K T D V V C G P Q D    R L R</p>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>CD40 Protein, acting as the receptor for TNFSF5/CD40LG, is instrumental in transducing signals through TRAF6- and MAP3K8-mediated pathways, leading to the activation of ERK in macrophages and B cells and subsequent induction of immunoglobulin secretion. Existing in both monomeric and homodimeric forms, CD40 Protein exhibits variations in its homodimeric structure, as observed in the bladder carcinoma cell line Hu549. The receptor interacts with key signaling molecules such as TRAF1, TRAF2, TRAF3, TRAF5, and TRAF6, with the crucial interaction occurring between CD40 Protein, TRAF6, and MAP3K8, thereby playing a pivotal role in ERK activation.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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