CD40 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P72910
Synonyms:	Tumor Necrosis Factor Receptor Superfamily member 5; Bp50; CD40L Receptor; CDw40; TNFRSF5
Species:	Human
Source:	HEK293
Accession:	P25942 (E21-R193)
Gene ID:	958
Molecular Weight:	Approximately 54.1 kDa

PROPERTIES

AA Sequence	E P P T A C R E K Q Y L I N S Q C C S L 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 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 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 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
Biological Activity	Immobilized human CD40L-His at 10 μg/mL (100 μL/well) can bind Human CD40-Fc. The EC_{50} of Human CD40-Fc is 10-30 ng/mL.
Appearance	Solution
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	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.

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

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