CD40 Protein, Mouse (174a.a, HEK293, His)

Cat. No.:	HY-P72724
Synonyms:	Tumor necrosis factor receptor superfamily member 5; Bp50; CD40; TNFRSF5
Species:	Mouse
Source:	HEK293
Accession:	P27512 (L20-R193)
Gene ID:	21939
Molecular Weight:	21-25 kDa

PROPERTIES

AA Sequence	L G Q C V T C S D K Q Y L H D G Q C C D L C Q P G S R L T S H C T A L E K T Q C H P C D S G E F S A Q W N R E I R C H Q H R H C E P N Q G L R V K K E G T A E S D T V C T C K E G Q H C T S K D C E A C A Q H T P C I P G F G V M E M A T E T T D T V C H P C P V G F F S N Q S S L F E K C Y P W T S C E D K N L E V L Q K G T S Q T N V I C G L K S R M R
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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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	CD40 Protein serves as the receptor for TNFSF5/CD40LG, transducing signals through TRAF6 and MAP3K8 pathways to activate ERK in macrophages and B cells, resulting in the induction of immunoglobulin secretion. Existing in both monomeric and homodimeric forms, CD40 Protein interacts with TRAF1, TRAF2, TRAF3, TRAF5, and TRAF6, playing a crucial role in mediating cellular responses to external signals. The interaction with TRAF6 and MAP3K8 is particularly essential for the activation of ERK and subsequent cellular processes.

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

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