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**Product Data Sheet**


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Product Name: CD40 Human, HEK

Cat. No.: GP26240

Batch No.: 1

**Product Data**

Purity &gt;98% Source HEK 293.

Physical Appearance solid Shipping Condition withIcePacks

Synonyms CD40 Molecule, TNF Receptor Superfamily Member 5, TNFRSF5, Tumor Necrosis Factor Receptor Superfamily, Member 5, Bp50, B-Cell Surface Antigen CD40, CD40L Receptor, CDW40, B Cell Surface Antigen CD40, B Cell-Associated Molecule, CD40 Antigen (TNF Receptor Superfamily Member 5), CD40 Type II Isoform, Nerve Growth Factor Receptor-Related B-Lymphocyte Activation Molecule, p50, Tumor Necrosis Factor Receptor Superfamily Member 5, CDw40, CD40 Antigen

Amino Acid Sequence  
 EPPTACREKQ YLINSQCCSL CQPGQKLVSD CTEFTETECL PCGESEFLDT  
 WNRETHCHQH KYCDPNLGLR VQKGTSETD TICTCEEGWH CTSEACESCV  
 LHRSCSPGFG VKQIATGVSD TICEPCVGF FSNVSSAFEK CHPWTSCETK  
 DLVVQQAGTN KTDVVCQPQD RLRLEPKSCD KTHTCPPCPA PELLGGPSVF  
 LFPPKPKDTL MISRTPEVTC VVVDVSHEDP EVKFNWYVDG VEVHNAKTKP  
 REEQYNSTYR VVSVLTVLHQ DWLNGKEYKC KVSNKALPAP IEKTISKAKG  
 QPREPQVYTL PPSRDELTKN QVSLTCLVKG FYPSDIAVEW ESNQPENNY  
 KTTTPVLDSG GSFFLYSKLT VDKSRWQQGN VFSCSVMHEA LHNHYTQKSL  
 SLSPGKHHHH HH

Formulation CD40 protein solution (1mg/ml) contains 10% glycerol and Phosphate-Buffered Saline (pH 7.4).

**Introduction**

CD40 belongs to the TNF-receptor super family. CD40 has been found to be vital in mediating a wide range of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation. AT-hook transcription factor AKNA is accounted to coordinately regulate the expression of CD40 and its ligand, which is significant for homotypic cell

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

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interactions. Adaptor protein TNFR2 interacts with CD40 and functions as a mediator of the signal transduction. The interaction of CD40 and its ligand is found to be essential for amyloid-beta-induced microglial activation, and therefore is considered to be an early event in Alzheimer disease pathogenesis.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

CD40 Human Recombinant produced in HEK cells is a single, glycosylated, polypeptide chain containing 412 amino acids (21-193 a.a.) and having a molecular mass of 46.1kDa. CD40 is expressed with a 239 amino acid hlgG-His-Tag at C-Terminus and purified by proprietary chromatographic techniques.

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