

CD40 recombinant protein

CD40 protein

CATALOG # AAA75432	HOST Human
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PRODUCT SYNONYMS

CD40; CD40 protein; soluble CD40 Ligand protein; CD-40 protein; CD-40; CD 40; TRAP protein; TNFSF5 protein; gp39 protein; T-BAM protein; CD154 protein; CD 40 protein; CD40 recombinant protein

PRODUCT SPECIFICATIONS

Host	Human
Purity/Purification	> 98% pure
Form/Format	Sterile filtered through a 0.2 um filter. Lyophilized from 10 mM Na3PO4, pH 7.5. Reconstitute in 5-10 mM Na3PO4, pH 7.5 to a concentration of 0.1-1.0 mg/ml.
Sequence	Region of CD 40 protein corresponds to amino acids MQKGDQ NPQIAAHVIS EASSKTTSVL QWAEKGYTMSNNLVLTLENG KQLTVKRQGL YYIYAQVTFC SNREASSQAP FIASLWLKSP GRFERILLRA ANTHSSAKPC GQQSIHLGGV FELQPGASVF VNVTDPSQVS HGTGFTSFGL LKL.
Sequence Length	117
Protein Type	Recombinant
Biological Significance	CD40, a member of the TNF receptor family, is a cell surface protein expressed on B cells, dendritic cells, monocytes, thymic epithelial cells and, at low levels, on T cells. Signaling through CD40 plays an important role in the proliferation and differentiation of B cells, and is critical for immunoglobulin (Ig) class switching. The membrane-anchored CD40-Ligand is expressed almost exclusively on activated CD4+ T lymphocytes. Failure to express CD40L leads to "immunodeficiency with hyper-IgM", a disease characterized by failure to produce IgG, IgA and IgE. The human CD40L gene codes for a 261 amino acid type II transmembrane protein, which contains a 22 amino acid cytoplasmic domain, a 24 amino acid transmembrane domain, and a 215 amino acid extracellular domain. The soluble form of CD40L is an 18 kDa protein comprising the entire TNF homologous region of CD40L and is generated in vivo by an intracellular proteolytic processing of the full length CD40L.
Endotoxin Levels	Endotoxin level is less than 0.1 ng per ug (1 EU/ug).
Expression System	E Coli
Preparation and Storage	Store at 4 degree C until reconstitution. Following reconstitution aliquot and freeze at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for CD40 recombinant protein	Purified recombinant Human CD40 protein
Product Categories/Family for CD40 recombinant protein	Immunology

NCBI AND UNIPROT INFORMATION

NCBI GI #	114053977
NCBI GeneID	958

Molecular Weight	16.3 kDa
NCBI Official Full Name	CD40, partial
NCBI Official Synonym Full Names	CD40 molecule, TNF receptor superfamily member 5
NCBI Official Symbol	CD40
NCBI Official Synonym Symbols	p50; Bp50; CDW40; TNFRSF5
NCBI Protein Information	tumor necrosis factor receptor superfamily member 5
UniProt Protein Name	Tumor necrosis factor receptor superfamily member 5
UniProt Gene Name	CD40
UniProt Synonym Gene Names	TNFRSF5
UniProt Entry Name	TNR5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/cd40-recombinant-protein-human/75432>