

CD40 active protein

CD40 Protein, Human, Recombinant (ECD, hFc Tag)

CATALOG #
AAA257926

HOST
HEK293 Cells

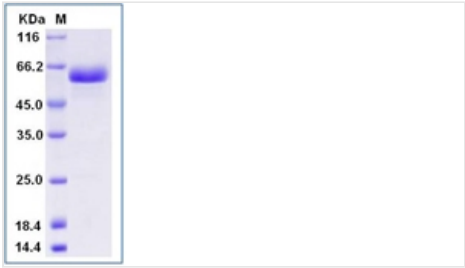
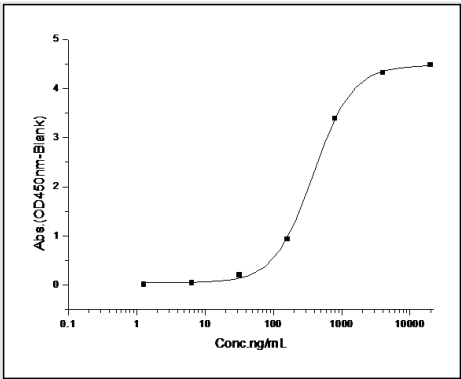
PRODUCT SYNONYMS

CD40; CD40 Protein; Human; Recombinant (ECD; hFc Tag); Human CD40/TNFRSF5 Protein (ECD; Fc Tag); Bp50 Protein; CDW40 Protein; p50 Protein; TNFRSF5 Protein; CD40 molecule; TNF receptor superfamily member 5; CD40 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>90% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Arg193
Species	Human
Endotoxin	<1.0EU per ug protein as determined by the LAL method.
Predicted N Terminal	Glu 21
Tag	C-human IgG1-Fc
Protein Construction	A DNA sequence encoding the human CD40 (NP_001241.1)(Met1-Arg193) was expressed with the Fc region of human IgG1 at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	1. Measured by its binding ability in a functional ELISA. 2. Immobilized human CD40L-His at 10ug/mL (100uL/well) can bind Human CD40-Fc. The EC50 of Human CD40-Fc is 10-30ng/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.

IMAGES



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized human CD40L-His at 10 ug/mL (100 uL/well) can bind Human CD40-Fc. The EC50 of Human CD40-Fc is 10-30 ng/mL.

ADDITIONAL INFORMATION

Related Product Information for CD40 active protein	Background: CD40, also known as TNFRSF5, is a member of the TNF receptor superfamily which are single transmembrane-spanning glycoproteins. CD40 protein plays an essential role in mediating a broad variety of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation. CD40 protein is expressed in B cells, dendritic cells, macrophages, endothelial cells, and several tumor cell lines. Defects in CD40 result in hyper-IgM immunodeficiency type 3 (HIGM3). In addition, CD40/CD40L interaction is found to be necessary for amyloid-beta-induced microglial activation, and thus is thought to be an early event in Alzheimer disease pathogenesis.
Product Categories/Family for CD40 active protein	Cancer Drug Targets; B Cell Receptor Signaling Pathway
References	van Kooten C, et al. (2000). CD40-CD40 ligand. J Leukoc Biol. 67 (1): 2-17.Bhushan A, et al. (2002). CD40:CD40L interactions in X-linked and non-X-linked hyper-IgM syndromes. Immunol Res. 24 (3): 311-24.Chatzigeorgiou A, et al. (2009) CD40/CD40L signaling and its implication in health and disease. Biofactors. 35(6): 474-83.Li R, et al. (2009) Expression of CD40 and CD40L in Gastric Cancer Tissue and Its Clinical Significance. Int J Mol Sci. 10(9): 3900-17.Lievens D, et al. (2009) The multi-functionality of CD40L and its receptor CD40 in atherosclerosis. Thromb Haemost. 102(2): 206-14.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507581
NCBI GeneID	958
NCBI Accession #	NP_001241.1
NCBI GenBank Nucleotide #	NM_001250.4
UniProt Accession #	P25942; Q53GN5; Q5JY15; Q5U007; Q7M4Q8; Q86YK5; Q9BYU0; E1P5S9
Molecular Weight	30,619 Da
NCBI Official Full Name	tumor necrosis factor receptor superfamily member 5 isoform 1
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; CD40L receptor; CD40 type II isoform; B cell-associated molecule; B cell surface antigen CD40; B-cell surface antigen CD40; CD40 antigen (TNF receptor superfamily member 5); tumor necrosis factor recept

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://www.aaabiotech.com/hek293-active-protein/cd40/257926>