

## Active Recombinant Human CD40 Protein, His-tagged

Cat. No. CD40-107H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human CD40 Protein extracellular domain 21-193aa (signal peptide removed), fused with a C-terminal His tag, was expressed in CHO.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>ProteinLength</b>	21-193 a.a.
<b>Description</b>	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.
<b>Predicted N Terminal</b>	Glu 21
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4.
<b>Bio-activity</b>	Measured by its binding ability in a functional ELISA.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Molecular Mass</b>	The recombinant mature human CD40 protein consists of 179 amino acids and has a calculated molecular mass of 20.0 KD.
<b>Endotoxin</b>	<1.0EU/ug, LAL method
<b>Purity</b>	>95% (SDS-PAGE)
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70°C.
<b>Storage</b>	Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

## GENE INFORMATION

<b>Gene Name</b>	CD40 CD40 molecule, TNF receptor superfamily member 5 [ Homo sapiens ]
<b>Official Symbol</b>	CD40
<b>Synonyms</b>	CD40; CD40 molecule, TNF receptor superfamily member 5; TNFRSF5, tumor necrosis factor receptor superfamily, member 5; tumor necrosis factor receptor superfamily member 5; Bp50; p50; 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 receptor superfamily, member 5; nerve growth factor receptor-related B-lymphocyte activation molecule; CDW40; TNFRSF5; MGC9013;
<b>Gene ID</b>	958

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>mRNA Refseq</b>	NM_001250
<b>Protein Refseq</b>	NP_001241
<b>MIM</b>	109535
<b>UniProt ID</b>	P25942
<b>Chromosome Location</b>	20q12-q13.2
<b>Pathway</b>	Adaptive Immune System, organism-specific biosystem; Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Asthma, organism-specific biosystem; Asthma, conserved biosystem; Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid disease, conserved biosystem;
<b>Function</b>	enzyme binding; protein binding; receptor activity; signal transducer activity;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA