

Active Recombinant Human CD40, Fc-tagged, Biotinylated

Cat. No. CD40-577H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant human CD40-Fc fusion is expressed as a 401 amino acid protein consisting of Glu21 - Arg193 region of CD40 (UniProt accession #P25942) and a C-terminal Fc from human IgG1, which exists as a dimer under non-reducing conditions.
Species	Human
Source	Human Cells
ProteinLength	21-193 a.a.
Form	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier & preservative free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).
Bio-activity	Binds to its ligand CD40L/CD154 and inhibits CD40L--induced signaling activity including NF-κB activation and proliferation of human B cells.
Molecular Mass	Calculated molecular mass (kDa): 44.7; Estimated by SDS-PAGE under reducing condition (kDa): 55-60
Endotoxin	<0.1 eu per 1 µg of purified recombinant protein determined by the
Purity	>95% judged by SDS-PAGE under reducing condition
Storage	The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below

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–20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.

Conjugation Biotin

GENE INFORMATION

Gene Name [CD40 CD40 molecule, TNF receptor superfamily member 5 \[Homo sapiens \]](#)

Official Symbol CD40

Synonyms

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;

Gene ID [958](#)

mRNA Refseq [NM_001250](#)

Protein Refseq [NP_001241](#)

MIM [109535](#)

UniProt ID [P25942](#)

Chromosome 20q12-q13.2

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Location	
Pathway	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;
Function	enzyme binding; protein binding; receptor activity; signal transducer activity;

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