

Recombinant Human CD40, Fc-tagged

Cat. No. CD40-27810TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human CD40 fused to the Fc region of Human IgG1 expressed in modified Human 293 cells.
Species	Human
Description	The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor has been found to be essential 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. AT-hook transcription factor AKNA is reported to coordinately regulate the expression of this receptor and its ligand, which may be important for homotypic cell interactions. Adaptor protein TNFR2 interacts with this receptor and serves as a mediator of the signal transduction. The interaction of this receptor and its ligand is found to be necessary for amyloid-beta-induced microglial activation, and thus is thought to be an early event in Alzheimer disease pathogenesis. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported.
Conjugation	Fc
Tissue specificity	B-cells and in primary carcinomas.
Biological activity	Activity: The ED50 of CD40-27810TH is typically 1.0-1.5 ug/ml as measured by its ability to neutralize CD40 ligand mediated proliferation of T47-D cells.
Form	Lyophilised: It is recommended that 0.5 ml of sterile phosphate-buffered saline be

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	added to the vial. Following reconstitution short-term storage at 4°C is recommended, with longer-term storage in aliquots at -18 to -20°C. Repeated freeze thawing is not rec
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Trehalose, 1% Human serum albumin, PBS
Storage	Store at +4°C.
Sequences of amino acids	Theoretical Sequence: EPPTACREKQYLINSQCCSLCQPGQKLVS DCTEFTETECLP CGESEFLDTWNRETHCHQHKYCDPNL GLRVQQKGTSETDTICTCEEGWHCTSEA CESCVLHRSC SPGFGVKQIATGVSDTICEPCPVGFFSNVSSAFEKCHPWT SCETK DLVVQQAGTNKTDVVCQPQDRLRRSSNTKVDKK VEPKSCDKTHTCPPCPAPELLG GPSVFLFPPKPKDTLM ISRTPEVTCVVDVSHEDPEVKFNWYVDGVEVHNAKTKPR EEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPA PIEKTISKAKGQPREPQV YTLPPSRDELTKNQVSLTCL VKGFYPSDIAVEWESNGQPENNYKTTTPVLDSGSGF FL YSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPG K
Sequence Similarities	Contains 4 TNFR-Cys repeats.
Full Length	Full L.

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

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	necrosis factor receptor superfamily, member 5; tumor necrosis factor receptor superfamily member 5; Bp50; p50;
Gene ID	958
mRNA Refseq	NM_001250
Protein Refseq	NP_001241
MIM	109535
Uniprot ID	P25942
Chromosome Location	20q12-q13.2
Pathway	Adaptive Immune System, organism-specific biosystem; Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Asthma, organism-specific biosystem; Asthma, conserved biosystem;
Function	enzyme binding; protein binding; receptor activity; signal transducer activity;