

Active Recombinant Human CD40 protein, His/Fc-tagged, Biotinylated

Cat. No. CD40-202H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD40(Leu 25 - Ser 645) fused with His and human IgG1 Fc fragment tag at C-terminal was expressed in HEK293, was enzymatically single-point biotinlabeled at C-terminus to retain its native conformational structure and bioactivity.
Species	Human
Source	HEK293
ProteinLength	25-645 a.a.
Predicted N Terminal	Glu 21
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally Mannitol or Trehalose are added as protectants before lyophilization.
Bio-activity	Measured by its binding ability in a functional ELISA. Immobilized Human CD40 Ligand, His Tag at 5 µg/mL (100 µl/well) can bind Biotinylated Human CD40, His Tag & Fc Tag with a linear range of 0.2-1µg/mL.
Molecular Mass	Has a calculated MW of 48 kDa. DTT-reduced Protein migrates as 55-65 kDa in SDS-PAGE due to glycosylation.
Endotoxin	Less than 1.0 EU per µg of the Biotinylated Human CD40, His Tag & Fc tag by the LAL method.

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Purity	>95% as determined by SDS-PAGE.
Applications	Has been used successfully for ELISA, western blotting, inhibition assay, pull-down, SPR, FACS, and affinity purification, together with anti-biotin antibody, streptavidin or avidin-conjugated probes.
Storage	Avoid repeated freeze-thaw cycles.No activity loss was observed after storage at:In lyophilized state for 1 year (4 centigrade); After reconstitution under sterile conditions for 3 months (-70 centigrade).
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

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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; 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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