

## Active Recombinant Mouse CD40 Antigen

**Cat. No.** Cd40-4981M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Cd40 was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Species</b>	Mouse
<b>Source</b>	Mouse
<b>Description</b>	CD40, a member of the TNF receptor family, is a cell surface protein expressed on B cells, dendritic cells, monocytes, thymic epithelial cells and, at low levels, on T cells. Signaling through CD40 plays an important role in the proliferation and differentiation of B cells, and is critical for immunoglobulin (Ig) class switching. The membrane-anchored CD40-Ligand is expressed almost exclusively on activated CD4+ T lymphocytes. Failure to express CD40L leads to "immunodeficiency with hyper-IgM", a disease characterized by failure to produce IgG, IgA and IgE. The soluble form of CD40L is an 18 kDa protein comprising the entire TNF homologous region of CD40L and is generated in vivo by an intracellular proteolytic processing of the full length CD40L.
<b>Form</b>	Sterile filtered through a 0.2 um filter. Lyophilized from 10 mM Na3PO4, pH 7.5 with 0.1M arginine. Restore in water to a concentration of 0.1-1.0 mg/ml.
<b>Purity</b>	>98% pure by SDS PAGE and HPLC
<b>Sequence</b>	Region of murine CD40 protein corresponding to amino acids MQRGDEDPQI AAHVVSEANS NAASVLQWAK KGYITMKSNL VMLENGKQLT VKREGLYYVY

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TQVTFCSNRE PSSQRPFIVG LWLKPSSGSE RILLKAANTH SSSQLCEQQS  
VHLGGVFELQ AGASVFNVT EASQVIHRVG FSSFGLLKL.

**Molecular Mass** 16.4 kDa

**Applications** Numerous applications are possible with this product and should be tested by the end user under their own laboratory conditions

**Endotoxin Levels** Endotoxin level is less than 0.1 ng per ug (1 EU/ug).

**Bioactivity** Determined by its ability to induce TNF-alpha and MIP-1 alpha production by Mouse splenocytes. The expected ED50 for this effect is <0.1 ug/ml.

**Storage** Store at 4 deg C until reconstitution. Following reconstitution aliquot and freeze at -20 deg C for long term storage. Avoid repeated freeze/thaw cycles.

## GENE INFORMATION

**Gene Name** [Cd40 CD40 antigen \[ Mus musculus \]](#)

**Official Symbol** [Cd40](#)

**Synonyms** Cd40; CD40 antigen; IGM; p50; Bp50; GP39; IMD3; TRAP; HIGM1; T-BAM; Tnfrsf5; AI326936; OTTMUSP00000017667; OTTMUSP00000017739; T-cell differentiation antigen; tumor necrosis factor receptor superfamily, member 5

**Gene ID** [21939](#)

**mRNA Refseq** [NM\\_011611](#)

**Protein Refseq** [NP\\_035741](#)

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<b>UniProt ID</b>	<a href="#">P27512</a>
<b>Chromosome Location</b>	2 H3; 2 97.0 cM
<b>Pathway</b>	Adaptive Immunity Signaling; Allograft rejection; Asthma; Autoimmune thyroid disease; Cell adhesion molecules (CAMs); Cytokine-cytokine receptor interaction; HTLV-I infection; IL-6 signaling Pathway; Immune System; Immunoregulatory interactions between a Lymphoid and a non-Lymphoid cell; Inflammatory Response Pathway; Intestinal immune network for IgA production; Malaria; NLR proteins; Primary immunodeficiency; Systemic lupus erythematosus; Toll-like receptor signaling pathway; Toxoplasmosis; Viral myocarditis
<b>Function</b>	Binding; enzyme binding; protein binding; receptor activity
<b>Rendering based on PDB 1CDF.</b>	