

Recombinant murine CD40-ECD

CAT No. UCC004

LOT No. A0032

0.1 mg/vial



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Product description

CD40 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.

Reference sequences: NM_011611

NP_035741

Swiss-prot P27512-4

Alternative names: tumor necrosis factor receptor superfamily member 5 isoform 1

TNF receptor superfamily member 5

CD40 antigen

CD40L receptor

CD40 type II isoform

nerve growth factor receptor-related B-lymphocyte activation molecule

ell-associated molecule

B cell surface antigen CD40

tumor necrosis factor receptor superfamily member 5

B-cell surface antigen CD40

Gene ID: 21939

Residues 24-193 of murine CD40, containing the extracellular domain - ECD -, were cloned, the protein was over-expressed in HEK293 cells and was purified to homogeneity. The calculated molecular weight of recombinant human CD40-ECD is 20.2 kDa and it contains an C-terminal hexahistidine tag. Each vial contains 100 µg CD40-ECD at a concentration of 1.4 mg/ml.

Sequence

marplctlllmatlagalagsvtcsdkqylhdgqccdlcqpgrltshtalektqchpcdsgefseqwnreirchqhrhcepnqglrvkkegtaesdtvctc
kegqhctskdceacaqhtpcipgfgvmematettdtvchpcpvvgffsnqsslfekcypwtscedknlevlqkgtsqtnvicglsrmraaa

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Storage and stability

Recombinant CD40-ECD should be stored at - 80 °C (stable for at least 1 year). The protein is stored in PBS. After thawing it should be stored in appropriate small aliquots at - 20 °C or - 80 °C (stable for at least 2 months).

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