

Recombinant Mouse CD40 Protein, Fc-tagged, FITC conjugated

Cat. No. Cd40-325MF Lot. No. (See product label)

SPECIFICATION

Product Overview

FITC conjugated recombinant Mouse Cd40 (NP_035741.2) (Met1-Arg193) was expressed with the Fc region of rabbit IgG at the C-terminus.

Species

Mouse

Source

HEK293

ProteinLength

Met1-Arg193 405

Description

CD40, also known as TNFRSF5, is a member of the TNF receptor superfamily which are single transmembrane-spanning glycoproteins. CD40 protein plays an essential role 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. CD40 protein is expressed in B cells, dendritic cells, macrophages, endothelial cells, and several tumor cell lines. Defects in CD40 result in hyper-IgM immunodeficiency type 3 (HIGM3). In addition, CD40/CD40L interaction is found to be necessary for amyloid-beta-induced microglial activation, and thus is thought to be an early event in Alzheimer disease pathogenesis.

Form

Lyophilized

Molecular Mass

45.4 kDa

N-terminal Sequence

Leu 20

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| | |
|-----------------------|--|
| Analysis | |
| Endotoxin | < 1.0 EU/ µg protein as determined by the LAL method. |
| Purity | > 90 % as determined by SDS-PAGE |
| Characteristic | <p>Disulfide-linked homodimer</p> <p>Labeled with FITC via amines</p> <p>Excitation source: 488 nm spectral line, argon-ion laser</p> <p>Excitation Wavelength: 488 nm</p> <p>Emission Wavelength: 535 nm</p> |
| Storage | <p>Samples are stable for up to twelve months from date of receipt at -70 centigrade.</p> <p>Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> |
| Storage Buffer | Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. |
| Reconstitution | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents. |
| Conjugation | FITC |

GENE INFORMATION

| | |
|------------------------|---|
| Gene Name | Cd40 CD40 antigen [<i>Mus musculus</i>] |
| Official Symbol | Cd40 |

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Synonyms

CD40; CD40 antigen; tumor necrosis factor receptor superfamily member 5; CD40L receptor; B-cell surface antigen CD40; T-cell differentiation antigen; tumor necrosis factor receptor superfamily, member 5; IGM; p50; Bp50; GP39; IMD3; TRAP; HIGM1; T-BAM; Tnfrsf5; AI326936;

Gene ID

[21939](#)

mRNA Refseq

[NM_011611](#)

Protein Refseq

[NP_035741](#)

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