

Recombinant human CD40/TNFRSF5 protein

Catalog Number: ATGP4007

PRODUCT INFORMATION

Expression system

HEK293

Domain

21-193aa

UniProt No.

P25942

NCBI Accession No.

NP_001241.1

Alternative Names

Tumor necrosis factor receptor superfamily member 5, B-cell surface antigen CD40, Bp50, p50, CD40L receptor, CDw40

PRODUCT SPECIFICATION

Molecular Weight

46.1kDa (412aa)

Concentration

1mg/ml (determined by Absorbance at 280nm)

Formulation

Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS - PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

hIgG-His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

CD40, also known as TNFRSF5, is a member of the TNF receptor superfamily. It transduces TRAF6- and MAP3K8-mediated signals that activate ERK in macrophages and B cells, leading to induction of immunoglobulin secretion. CD40 is a receptor on antigen-presenting cells of the immune system and is essential for mediating a broad

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variety of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation. CD40 molecule is a potential target for cancer immunotherapy. There are number of completed and ongoing clinical trials where agonistic anti-CD40 monoclonal antibodies are employed to activate an anti-tumor T cell response via activation of dendritic cells. Recombinant human CD40, fused to hlgG-His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Amino acid Sequence

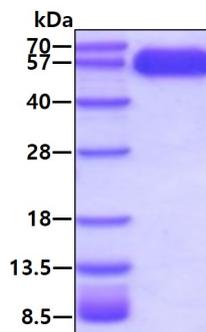
EPPTACREKQ YLINSQCCSL CQPGQKLVSD CTEFTETECL PCGESEFLDT WNRETHCHQH KYCDPNLGLR VQQKGTSETD
TICTCEEGWH CTSEACESCV LHRSCSPGFG VKQIATGVSD TICEPCVGF FSNVSSAFEK CHPWTSCETK DLVVQQAGTN
KTDVVCGPQD RLR<LEPKSCD KTHTCPPCPA PELLGGPSVF LFPPKPKDTL MISRTPEVTC VVVDVSHEDP EVKFNWYVDG
VEVHNAKTKP REEQYNSTYR VVSVLTVLHQ DWLNGKEYKC KVSNKALPAP IEKTISKAKG QPREPQVYTL PPSRDELTKN
QVSLTCLVKG FYPSDIAVEW ESNGQPENNY KTTTPVLDSG GSFFLYSKLT VDKSRWQQGN VFSCSVMHEA LHNHYTQKSL
SLSPGKHHHH HH>

General References

Vonderheide RH, et al, (2013) Clin Cancer Res. 19:1035-1043.
Remer M., et al (2017) Curr Top Microbiol Immunol. 405:165-207.
Karnell JL, et al, (2019) Adv Drug Deliv Rev. 141:92-103.

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain