Recombinant Human TNFRSF5/CD40 Protein

Catalog No.: RP00543

Sequence Information

Species
Human

Gene ID
958

Swiss Prot
P25942-1

Tags
C-His

Synonyms
CD40; CD40L receptor; TNFRSF5; CD40 antigen; CD40 molecule; CDw40; MGC9013;

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE;≥ 95 % as determined by HPLC.

Calculated MW
20 kDa

Observed MW
35-40 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

CD40 is a costimulatory protein found on antigen presenting cells and is required for their activation. The binding of CD154 (CD40L) on TH cells to CD40 activates antigen presenting cells and induces a variety of downstream effects.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.

Basic Information

Description
Recombinant Human TNFRSF5/CD40 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Glu21-Arg193) of Human TNFRSF5/CD40 (Accession #P25942-1) fused with a C-His tag at the C-terminus.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

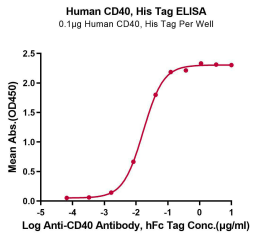
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

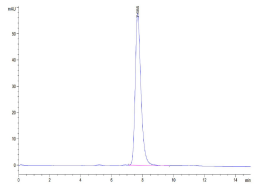
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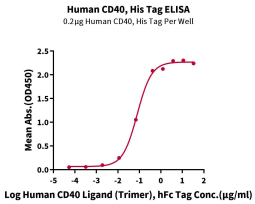
Validation Data



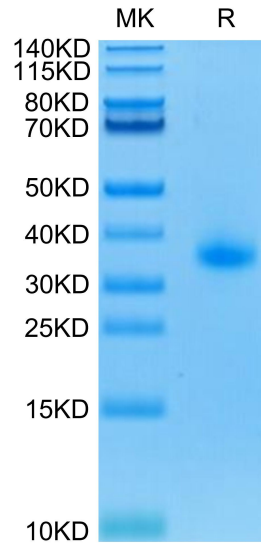
Immobilized Human CD40, His Tag at 1 μg/mL (100 μL/Well). Dose response curve for Anti-CD40 Antibody, hFc Tag with the EC_{50} of 16.8ng/mL determined by ELISA.



The purity of Human CD40 is greater than 95% as determined by SEC-HPLC.



Immobilized Human CD40, His Tag at 2 μg/mL (100 μL/Well) on the plate. Dose response curve for Human CD40 Ligand (Trimer) , hFc Tag with the EC_{50} of 79.7ng /mL determined by ELISA (QC Test).



Recombinant Human TNFRSF5/CD40 Protein was determined by Tris-Bis PAGE under reducing conditions.