Mouse CD40/TNFRSF5 Protein

HA210212

Product name:	Mouse CD40/TNFRSF5 Protein
Species reactivity:	Mouse
Protein construction description:	Recombinant Mouse CD40/TNFRSF5 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Val24-Arg193.

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.

Purity: > 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Endotoxin: Less than 1EU per μg by the LAL method.

Source: HEK293

Accession: P27512-1

Predicted molecular mass: The protein has a predicted MW of 19.9 kDa. Due to glycosylation, the protein migrates to 30-35 kDa based on Tris-Bis PAGE result.

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

Reconstitution: Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.

Storage: -20 to -80°C for 12 months as supplied from date of receipt.
-80°C for 3-6 months after reconstitution.
2-8°C for 2-7 days after reconstitution.
Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Images

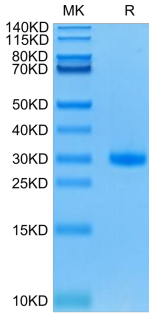

Fig1: Mouse CD40 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

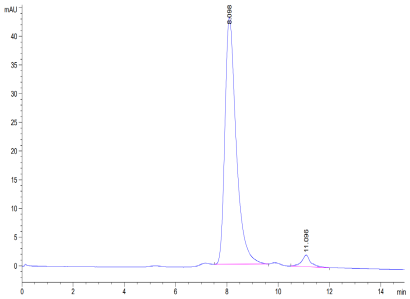

Fig2: The purity of Mouse CD40 is greater than 95% as determined by SEC-HPLC.

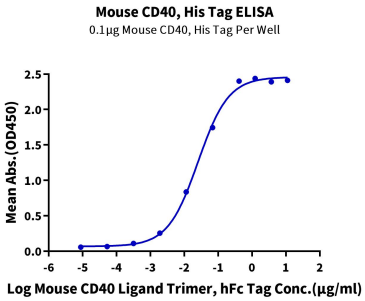

Fig3: Immobilized Mouse CD40, His Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Mouse CD40 Ligand Trimer, hFc Tag with the EC50 of 25.6ng/ml determined by ELISA (QC Test).

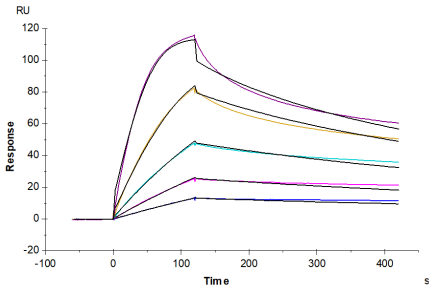

Fig4: Mouse CD40, His Tag immobilized on CM5 Chip can bind Mouse CD40 Ligand, His Tag with an affinity constant of 0.54 nM as determined in SPR assay (Biacore T200).

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".