

Canine CD40/TNFRSF5 Protein



Cat. No. CD4-DM140

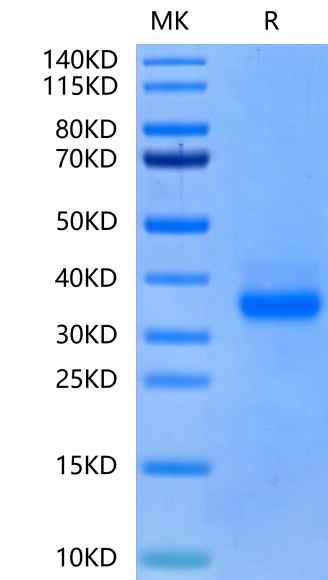
Description	
Source	Recombinant Canine CD40/TNFRSF5 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Glu21-Ala194.
Accession	Q7YRL5
Molecular Weight	The protein has a predicted MW of 20.14 kDa. Due to glycosylation, the protein migrates to 30-40 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-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.	

Assay Data

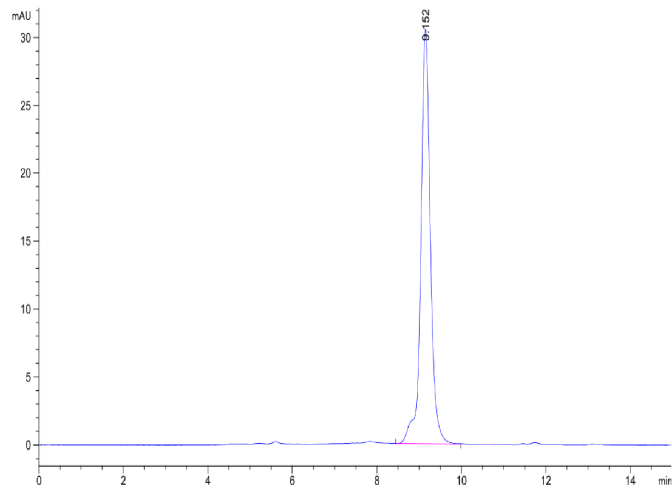
Bis-Tris PAGE



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

SEC-HPLC

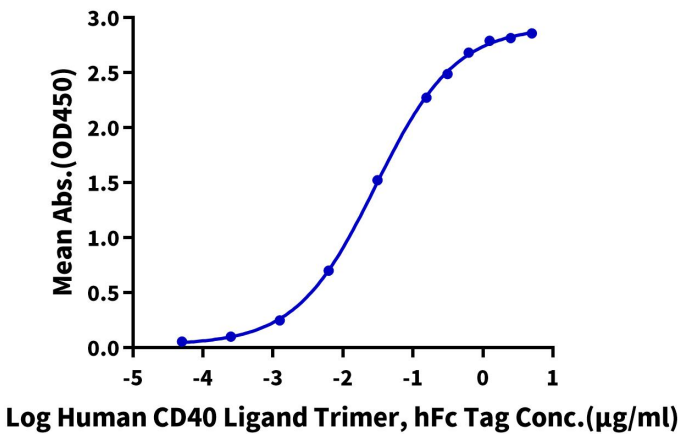
Assay Data



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

ELISA Data

**Canine CD40, His Tag ELISA**  
0.5µg Canine CD40, His Tag Per Well



Immobilized Canine CD40, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human CD40 Ligand Trimer, hFc Tag with the EC50 of 29.4ng/ml determined by ELISA (QC Test).