

Rat CD40/TNFRSF5 Protein

Cat. No. CD4-RM140



Description

Source	Recombinant Rat CD40/TNFRSF5 Protein is expressed from HEK293 with His tag at the C-terminus. It contains Val24-Arg193.
Accession	A6JXD6
Molecular Weight	The protein has a predicted MW of 20.39 kDa. Due to glycosylation, the protein migrates to 28-38 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 90% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

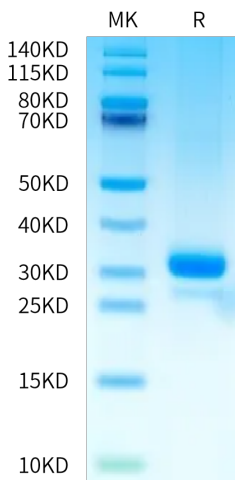
Formulation	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

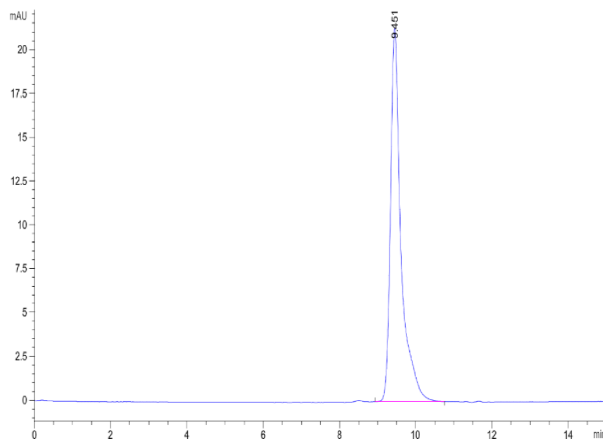
Assay Data

Bis-Tris PAGE



Rat CD40 on Bis-Tris PAGE under reduced condition. The purity is greater than 90%.

SEC-HPLC

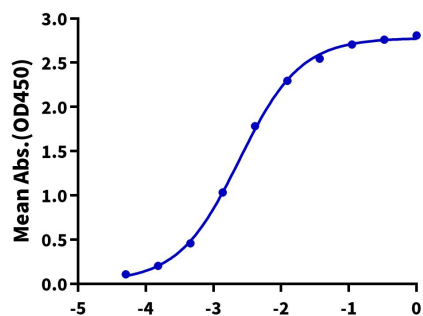


The purity of Rat CD40 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Rat CD40, His Tag ELISA
0.5µg Rat CD40, His Tag Per Well



Immobilized Rat CD40, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Mouse CD40 Ligand (Trimer), monomeric Fc Tag (Cat. CDL-MM240) with the EC50 of 2.4ng/ml determined by ELISA.

Log Mouse CD40 Ligand (Trimer), monomeric Fc Tag Conc. (µg/ml)