GenScript
Scripting Possibilities

Rev02
Update: Aug,08,2025

DATASHEET

CD40/TNFRSF5, His, Canine

Cat. No.: Z04105

Product Introduction

Species	Canine
Protein Construction	CD40/TNFRSF5 (Glu21-Ala194) Accession # Q7YRL5 — His N-term — C-term
Purity	> 95% as determined by BisTris PAGE > 95% as determined by HPLC
Endotoxin Level	Less than 1EU per µg by the LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized CD40/TNFRSF5, His, Canine at 5µg/ml (100µl/well) on the plate can bind Human CD40 Ligand (Trimer) , hFc Tag. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	20.14 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 30-40 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).
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 & Stability	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

Background

Target 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.

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

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