CREATIVE BIOMART®
Immune Checkpoints

Recombinant Canine CD40 protein, C-His Tag

Product Information

Cat	*IMP-344*
Official Symbol	*CD40*
Product Overview	*Recombinant Canine CD40 protein (NP_001002982.1) (Met1-Ala194) was expressed in HEK293, fused with a C-terminal polyhistidine tag.*
Description	*CD40, also known as TNFRSF5, is a member of the TNF receptor superfamily which are single transmembrane-spanning glycoproteins. CD40 protein plays an essential role in mediating a broad variety of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation. CD40 protein is expressed in B cells, dendritic cells, macrophages, endothelial cells, and several tumor cell lines. Defects in CD40 result in hyper-IgM immunodeficiency type 3 (HIGM3). In addition, CD40/CD40L interaction is found to be necessary for amyloid-beta-induced microglial activation, and thus is thought to be an early event in Alzheimer disease pathogenesis.*
Expression System	*HEK293*
Species	*Canine*
Tag	*C-His Tag*
Predicted N Terminal	*Glu 21*
Form	*Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.*
Molecular Mass	*The recombinant canine CD40 comprises 185 amino acids and has a predicted molecular mass of 20.5 kDa. The apparent molecular mass of the protein is approximately 33 kDa in SDS-PAGE under reducing conditions due to glycosylation.*
Protein length	*Met1-Ala194*
Endotoxin	*< 1.0 EU per μg of the protein as determined by the LAL method*
Purity	*> 95 % as determined by SDS-PAGE*
Storage	*Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.*
Reconstitution	*It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover*

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