Recombinant Canine CD40 Protein (Glu21-Ala194), His-tagged

Cat. No. CD40-928C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Canine CD40 Protein (NP_001002982.1) (Glu21-Ala194) was produced by Yeast expression system. This protein was expressed with a polyhistidine tag at the C-terminus.
Species	Canine
Source	Yeast
ProteinLength	Glu21-Ala194
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.
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.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	The recombinant canine CD40 consists of 184 amino acids and predicts a molecular mass of 20.4 kDa.
Purity	> 90 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. 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 mg/ml. Centrifuge the vial at 4℃ before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	CD40 CD40 molecule [Canis lupus familiaris (dog)]
Official Symbol	CD40
Synonyms	TNFRSF5
Gene ID	403469
mRNA Refseq	NM_001002982

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Protein Refseq	NP_001002982
UniProt ID	Q7YRL5

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