

## Recombinant Canine CD40 ligand (CD40LG)

**Cat. No.:** AP2C22

**Product Type:** Animal Proteins

**Size:** 100 µg

### Product Overview

BioVenic's Recombinant Canine CD40 ligand (CD40LG) is a recombinant protein expressed from HEK293 Cell. Its predicted molecular weight is 16.0 kDa. The purity is >95% (SDS-PAGE).

### Specifications

Type	Recombinant Protein
Species	Canine
Expression System	HEK293 Cell
Purity	>95% (SDS-PAGE)
Predicted Molecular Weight	16.0 kDa
Physical State	Lyophilized
Formulation	pH 7.4. 5 % trehalose and mannitol are added as protectants.

### Target Information

Canine CD40 Ligand (CD40LG) is a member of the TNF superfamily, transiently expressed on activated T cells. It binds to CD40 on antigen-presenting cells (APCs), promoting their activation and maturation. In dogs, CD40LG is crucial for B cell function and immune responses, including immunoglobulin class switching and germinal center formation. It also enhances dendritic cell maturation and activation, which is vital for antigen presentation and T cell activation. Additionally, CD40LG has therapeutic potential in cancer immunotherapy, as shown in studies where it was used to treat canine melanoma, resulting in immune cell infiltration and tumor regression.

Protein	Canine CD40 ligand (CD40LG)
Protein Synonym	CD154; CD40LG; TNFSF5
Gene ID	<a href="#">403468</a>
UniProt ID	<a href="#">Q97626</a>

### Shipping and Storage

This product is shipped with ice packs. Lyophilized protein can be stored at -20°C for 1 year. After reconstitution, the protein solution can be stored at 2-8°C for 2-7 days.

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### **User Note**

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Aliquot the reconstituted solution to minimize freeze-thaw cycles.

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The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.