

Recombinant Canine C-C Motif Chemokine 2 (CCL2)

Cat. No.: AP1C92

Product Type: Animal Proteins

Size: 25 µg

Product Overview

BioVenic's Recombinant Canine C-C Motif Chemokine 2 (CCL2) is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 8.8 kDa. The purity is >90% (SDS-PAGE).

Specifications

Type	Recombinant Protein
Species	Canine
Expression System	<i>E.coli</i>
Purity	>90% (SDS-PAGE)
Endotoxin	<0.1 EU/µg
Predicted Molecular Weight	8.8 kDa
Physical State	Lyophilized
Formulation	The buffer before lyophilization is a 0.2 µm filtered solution in PBS with BSA as a carrier protein.

Target Information

Canine C-C motif chemokine 2 (CCL2), also known as monocyte chemoattractant protein-1 (MCP-1), is a chemokine that plays a crucial role in immune cell recruitment, particularly for monocytes, memory T cells, and natural killer (NK) cells. It is involved in directing these immune cells to sites of inflammation or infection. In dogs, CCL2 is implicated in the immune response and may contribute to the pathogenesis of various diseases, including certain cancers, by promoting the infiltration of immune-suppressive cells into tumor microenvironments.

Protein	Canine C-C Motif Chemokine 2 (CCL2)
Protein Synonym	Monocyte chemoattractant protein 1; Monocyte chemotactic protein 1 (MCP-1); Sma II-inducible cytokine A2
Gene ID	403981
UniProt ID	P52203

Shipping and Storage

This product is shipped with dry ice. It is recommended to aliquote as needed and store at -80°C upon receipt. Reconstituted protein solution can be stored at 4°C for 1 week, at $< -80^{\circ}\text{C}$ for 12 months.

User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute at $100\ \mu\text{g}/\text{mL}$ in $4\ \text{mM HCl}$ containing at least 0.4% human or bovine serum albumin. Aliquote the reconstituted solution to minimize freeze-thaw cycles.

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.