

Active Recombinant Canine Chemokine (C-C motif) Ligand 2

Cat. No. CCL2-406C Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Canine CCL2 protein was expressed in E. coli. Gln24-Pro101.
Species	Canine
Source	E.coli
Protein Length	24-101 a.a.
Description	Canine CCL2 is an 8 kDa member of the CC chemokine family of chemotactic factors. It is synthesized as a 101 amino acid (aa) precursor that contains a 23 aa signal sequence and a 78 aa mature segment. It contains no potential N-linked glycosylation sites and is not known for any posttranslational modifications.
Form	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
N-terminal Sequence	No results obtained: Gln24 predicted
Molecular Weight	8.8 kDa
Activity	Measured by its ability to chemo-attract human CCR2A transfected BaF3 Canine pro-B cells. The ED50 for this effect is typically 0.03-0.15 µg/mL.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.

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Reconstitution	Reconstitute at 25 µg/mL in sterile PBS that containing at least 0.1% human or bovine serum albumin.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.
GENE INFORMATION	
Gene Name	CCL2 chemokine (C-C motif) ligand 2 [<i>Canis lupus familiaris</i>]
Official Symbol	CCL2
Synonyms	CCL2; chemokine(C-C motif) ligand 2; C-C motif chemokine 2; MCP-1; small-inducible cytokine A2; monocyte chemo attractant protein 1; monocyte chemo attractant protein-1; MCP1; SCYA2
Gene ID	403981
mRNA Refseq	NM_001003297
Protein Refseq	NP_001003297
UniProt ID	P52203
Chromosome Location	9
Pathway	Chagas disease (American trypanosomiasis); Chemokine signaling pathway; Cytokine-cytokine receptor interaction; Diabetes pathways; Herpes simplex infection; Influenza A; Malaria; NOD-like receptor signaling pathway; PERK

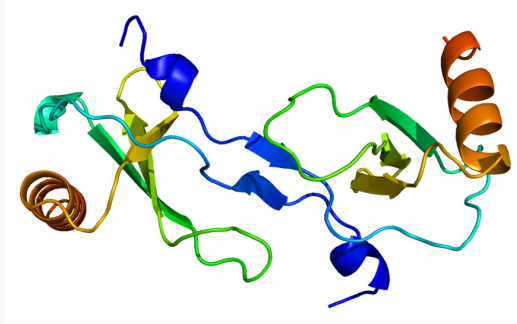
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regulatedgene expression; Rheumatoid arthritis; Unfolded Protein Response

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