

Recombinant Swine Chemokine (C-C motif) Ligand 2

Cat. No. CCL2-144S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Swine CCL2 protein was expressed in Yeast and purified by using Ion-exchange chromatography, 8.6 kDa (76 aa).
Species	Pig
Source	Yeast
Description	Chemokine (C-C motif) ligand 2 (CCL2) is a small cytokine belonging to the CC chemokine family that is also known as monocyte chemotactic protein-1 (MCP-1). CCL2 recruits monocytes, memory T cells, and dendritic cells to sites of tissue injury and infection. This chemokine is produced as a protein precursor containing signal peptide of 23 amino acids and a mature peptide of 76 amino acids.
Sequences Of Amino Acids	QPDAINSPVT CCYTLTSKKI SMQRLMSYRR VTSSKCPKEA VIFKTIAGKE ICAEPKQKWV QDSISHLDDK NQTPKP.
Formulation/Reconstitution	Lyophilized. Reconstitute with sterile phosphate-buffered saline containing at least 0.1% carrier protein.
Purity	>95% as visualized by SDS-PAGE analysis.
Purification	Ion-exchange chromatography.
Biological Activity	The biological activity of recombinant swine CCL2 was determined in a

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	chemotaxis assay using a Boyden chamber with freshly isolated swine PBMCs using a Percoll gradient method. Bioactivity is typically detected at 30 ng/mL steadily, increasing through 1 ug/mL.
Storage	Stable for up to twelve months from date of receipt at -20°C. Stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze/thaw cycles.
Pathways	Chemokine signaling pathway; Cytokine-cytokine receptor interaction; NOD-like receptor signaling pathway

GENE INFORMATION

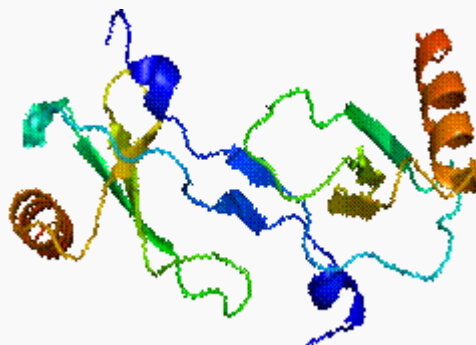
Gene Name	CCL2 chemokine (C-C motif) ligand 2 [<i>Sus scrofa</i>]
Synonyms	CCL2; chemokine (C-C motif) ligand 2; MCP-1; C-C motif chemokine 2; small-inducible cytokine A2; monocyte chemotactic protein 1; monocyte chemoattractant protein 1
Gene ID	397422
mRNA Refseq	NM_214214
Protein Refseq	NP_999379
UniProt ID	P42831

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