

GMP Recombinant Porcine CCL2 Protein, His-Tagged

Cat. No. CCL2-01P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GMP Recombinant Porcine CCL2 Protein, His-Tagged was expressed in Escherichia coli cell-derived in an animal component free process under cGMP guidelines.
Species	Porcine
Source	E.coli
Description	CCL2, also known as MCP-1, is belonging to the CC β chemokine family. CCL2 can be identified in endothelial cells, smooth muscle cells and monocytes as the results of reaction to several atherogenic stimulants, such as CD40 ligand, (IL-1β) and oxidized low density lipoprotein, interleukin-1β platelet derived growth factor (PDGF). Recent study shows that in vivo MCP1 have several critical roles in atherosclerosis. Additionally, MCP-1 has been proved involving in monocytic infiltration of tissues during several inflammatory diseases, and has been implicated in macrophage-mediated tumor growth inhibition in mice. In addition, CCL2 has been shown to have direct effects on tumor cells in an autocrine and paracrine fashion in multiple cancers, including sarcoma, lung, cervix, ovary, breast, and prostate.
Form	Lyophilized
AA Sequence	QPDAINSPVTCCYTLTSSKISMQRRLMSYRRVTSSKCPKEAVIFKTIAGKEICAEPKQK WVQDSISHLDKKNQTPKP with polyhistidine tag at the N-terminus
Endotoxin	<0.1 EU per 1 μ g of the protein by the LAL method.

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Purity	>98% as determined by SDS-PAGE. Ni-NTA chromatography
Notes	Please use within one month after protein reconstitution.
Storage	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
Storage Buffer	The protein was lyophilized from a solution containing 1X PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

GENE INFORMATION

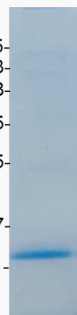
Gene Name	CCL2 chemokine (C-C motif) ligand 2 [<i>Sus scrofa</i> (pig)]
Official Symbol	CCL2
Synonyms	MCP-1
Gene ID	397422
mRNA Refseq	NM_214214.1
Protein Refseq	NP_999379.1
UniProt ID	P42831

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