Human MCP-2/CCL8, Tag Free Protein

HA211228

Product name:	Human MCP-2/CCL8, Tag Free
Species reactivity:	Human
Bio-Activity:	Testing in progress.
Protein construction description:	A DNA sequence encoding the human MCP-2/CCL8 protein (P80075) (Gln 24-Pro 99) was expressed with tag free.

Background: Chemokine (C-C motif) ligand 8 (CCL8), also known as monocyte chemoattractant protein 2 (MCP2), is a protein that in humans is encoded by the CCL8 gene. CCL8 is a small cytokine belonging to the CC chemokine family. The CCL8 protein is produced as a precursor containing 109 amino acids, which is cleaved to produce mature CCL8 containing 75 amino acids. MCP-2 is chemotactic for and activates many different immune cells, including mast cells, eosinophils and basophils, (that are implicated in allergic responses), and monocytes, T cells, and NK cells that are involved in the inflammatory response. CCL8 elicits its effects by binding to several different cell surface receptors called chemokine receptors. These receptors include CCR1, CCR2B, CCR3 and CCR5. CCL8 is a CC chemokine that utilizes multiple cellular receptors to attract and activate human leukocytes. CCL8 is a potent inhibitor of HIV1 by virtue of its high-affinity binding to the receptor CCR5, one of the major co-receptors for HIV1. In addition, CCL8 attributes to the growth of metastasis in breast cancer cells. The manipulation of this chemokine activity influences the histology of tumors promoting steps of metastatic processes. CCL8 is also involved in attracting macrophages to the decidua in labor.

Purity:	>95% as determined by SDS-PAGE.
Endotoxin:	Less than 1.0 EU per μg by the LAL method.
Fragment region:	MCP-2/CCL8 (24-99)
Source:	HEK293
Accession:	P80075
Predicted molecular mass:	9.7 kD
Formulation:	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution:	Reconstitute at 250 μg/ml in sterile water.
Storage:	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20℃ to -80℃ It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.

Images

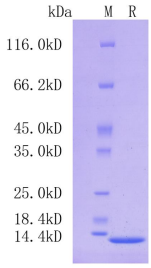

Fig1: Protein on SDS-PAGE under reducing (R) condition.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".