

Growth Factor Data Sheet

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Rat CCL3 is a chemokine containing four conserved cysteine residues, of which the first two are adjacent. It is expressed by T-cells, B-cells, macrophages, and various tumor cells lines and has been identified as a G0/G1 switch gene in various cells. CCL3 is the primary stimulator of TNF secretion and is chemotactic for polymorphonuclear leukocytes. CCL3 induces superoxide production by neutrophils, plays an inhibitory role in hematopoiesis, and displays inhibitory activity against strains of HIV-1, HIV-2, and SIV. CCL3 is a ligand for CCR1, CCR4, and the HIV-1 coreceptor CCR5. Activation of CCR5 through CCL3 activates a G-protein pathway through GNAI2 and a tyrosine phosphorylation through JAK2.

Catalog Number	2540-03
Product Name	CCL3, Rat Recombinant Rat Chemokine (C-C motif) Ligand 3 (CCL3) Monocyte Chemoattractant Protein 1, Alpha (MCP1 α , MCP-1 α) Small Inducible Cytokine Subfamily A Member 3 (SCYA3) LD78-Alpha Macrophage Inflammatory Protein 1, Alpha (MIP1A) G0/G1 Switch Gene 19-1 (GOS-19-1)
Source	<i>Escherichia coli</i>
MW	~7.9 kDa (69 amino acids)
Sequence	APYGADTPTA CCFSYGRQIP RKFIADYFET SSLCSQPGVI FLTKRNRQIC ADPKETWVQE YITELELNA
Accession Number	P50229
Purity	>98% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human blood monocytes is in a concentration range of 10-100 ng/ml.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.