

Growth Factor Data Sheet

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Rat CCL4 is a chemokine containing four conserved cysteine residues, of which the first two are adjacent. It is expressed and secreted by T-cells, B-cells, monocytes, and various tumor cells lines. Expression of CCL4 is induced by IL2 and mitogens, such as phytohemmagglutinin, LPS, and the peptidoglycan wall of *S. aureus* and expression is inhibited by glucocorticoids, TGF-beta, and cyclosporin A. CCL4 is an HIV-suppressive factor and may contribute to amyloid deposition in Alzheimer disease. It also binds to HSV-1 virions and generates pores in the envelope of HSV-1. CCL4 is a ligand for CCR1, CCR3, CCR5, CCR8, and ACKR2 (D6).

Catalog Number	2540-04
Product Name	CCL4, Rat Recombinant Rat Chemokine (C-C motif) Ligand 4 (CCL4) Macrophage Inflammatory Protein 1, Beta (MIP1B, MIP1B1) Small Inducible Cytokine Subfamily A Member 4 (SCYA4) Immune Activation 2 (ACT2, ACT-2)
Source	<i>Escherichia coli</i>
MW	~7.8 kDa (69 amino acids)
Sequence	APIGSDPPTS CCFSYTSRKI HRNFVMDYYE TSSLCSQPAV VFLTKKGRQI CADPSEPWVN EYVNDLELN
Accession Number	P50230
Purity	>97% 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 peripheral blood monocytes is in a concentration of 10-1000 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.