

Growth Factor Data Sheet

GoldBio growth factors are manufactured for **RESEARCH USE ONLY** and cannot be sold for human consumption!

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 of *S. aureus* and expression is inhibited by glucocorticoids, TGF-beta, and cyclosporin A. CCL4 is an HIV-suppressive factor produced by CD8+ T-cells. 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	2140-04
Product Name	CCL4, Human Recombinant Human 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	APMGSDPPTA CCFSYTARKL PRNFVVDYYE TSSLCSQPAV VFQTKRGKQV CADPSESWWQ EYVYDLELN
Accession Number	Q8NHW4
Purity	>97% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using human CCR5 transfected murine BaF3 cells is less than 2.0 ng/ml, corresponding to a specific activity of >5.0 × 10 ⁵ IU/mg.
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.