

## Recombinant Human Chemokine (C-C motif) Ligand 4

Cat. No. CCL4-159H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human macrophage inflammatory protein-1 $\beta$ was expressed in <i>S. frugiperda</i> insect cells. A low molecular weight chemokine involved in inflammation, hematopoiesis, and immunoregulation. Exhibits chemoattractant activity on monocytes and chemoattractant and proadhesive effects on lymphocytes. MW = 7800.
<b>Species</b>	Human
<b>Source</b>	<i>S. frugiperda</i>
<b>Description</b>	Macrophage Inflammatory Proteins belong to the family of chemotactic cytokines known as chemokines. In humans, there are two major forms, MIP-1a and MIP-1b that are now also named CCL3 and CCL4. Both factors are produced by macrophages after they are stimulated with bacterial endotoxins. MIP-1a and MIP-1b activate human granulocytes (neutrophils, eosinophils and basophils) which can lead to acute neutrophilic inflammation. MIP-1a and MIP-1b induce synthesis and release of other pro-inflammatory cytokines such as interleukin-1 (IL-1), IL-6 and TNF-alpha from fibroblasts and macrophages. CCL3 and CCL4 genes are both located on human chromosome 17.
<b>Purity</b>	$\geq 97\%$ by SDS-PAGE.
<b>Form</b>	Lyophilized from sterile-filtered 30% acetonitrile, 0.1% TFA, 50 g BSA/g MIP-1 $\beta$ .

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Biological activity</b>	ED50 = 40-60 ng/ml as measured by its ability to inhibit mouse hematopoietic stem cell proliferation in an in vitro colony assay that detects primitive cells.
<b>Endotoxin</b>	≤100 pg/μg MIP-1β.
<b>Solubility</b>	Sterile PBS containing ≥0.1% HSA or BSA.
<b>Storage</b>	≤ -70°C.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">CCL4 chemokine (C-C motif) ligand 4 [ Homo sapiens ]</a>
<b>Synonyms</b>	CCL4; chemokine (C-C motif) ligand 4; ACT2; ACT-2; G-26; LAG1; MIP1B; SCYA2; SCYA4; MIP1B1; AT744.1; MGC104418; MGC126025; MGC126026; MIP-1-beta; chemokine C-C motif ligand 4; CC chemokine ligand 4; secreted protein G-26; lymphocyte-activation gene 1; small inducible cytokine A4 (homologous to mouse Mip-1b); MIP-1-beta(1-69); HC21; LAG-1; LAG1; G-26 T-lymphocyte-secreted protein; Lymphocyte activation gene 1 protein; Macrophage inflammatory protein 1-beta; PAT 744; Protein H400; Small-inducible cytokine A4; T-cell activation protein 2; chemokine C-C motif ligand 4; ymphocyte-activation gene 1; small inducible cytokine A4 (homologous to mouse Mip-1b)
<b>Gene ID</b>	<a href="#">6351</a>
<b>mRNA Refseq</b>	<a href="#">NM_002984</a>
<b>Protein Refseq</b>	<a href="#">NP_002975</a>
<b>MIM</b>	<a href="#">182284</a>

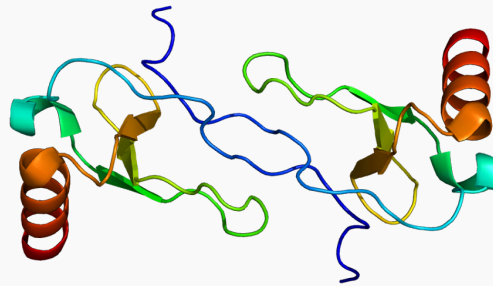
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<b>UniProt ID</b>	P13236
<b>Chromosome Location</b>	17q12
<b>Pathway</b>	Cytokine-cytokine receptor interaction; Toll-like receptor signaling pathway
<b>Function</b>	chemokine activity; receptor signaling protein; tyrosine kinase activity

PDB rendering based on 1hum.



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