

Recombinant Human Chemokine (C-C motif) Ligand 4

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

SPECIFICATION

Product Overview	Recombinant human macrophage inflammatory protein-1 β 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.
Species	Human
Source	<i>S. frugiperda</i>
Description	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.
Purity	$\geq 97\%$ by SDS-PAGE.
Form	Lyophilized from sterile-filtered 30% acetonitrile, 0.1% TFA, 50 g BSA/g MIP-1 β .

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Biological activity	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.
Endotoxin	≤100 pg/μg MIP-1β.
Solubility	Sterile PBS containing ≥0.1% HSA or BSA.
Storage	≤ -70°C.

GENE INFORMATION

Gene Name	CCL4 chemokine (C-C motif) ligand 4 [Homo sapiens]
Synonyms	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)
Gene ID	6351
mRNA Refseq	NM_002984
Protein Refseq	NP_002975
MIM	182284

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UniProt ID	P13236
Chromosome Location	17q12
Pathway	Cytokine-cytokine receptor interaction; Toll-like receptor signaling pathway
Function	chemokine activity; receptor signaling protein; tyrosine kinase activity
PDB rendering based on 1hum.	