

## Recombinant Human CCL4 Protein

Cat. No. CCL4-25H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human CCL4 Protein without tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	Macrophage inflammatory protein-1 beta , also known as CCL4, is produced by macrophages and functions as a mitogen-inducible cytokine. MIP-1 signals through the chemokine receptor CCR5 to chemoattract immune cells. MIP-1 induces inflammatory responses, including neutrophil superoxide production. The MIP-1 and MIP-1 heterodimer exhibits antiviral activity against the human immunodeficiency virus 1 (HIV-1).
<b>Bio-activity</b>	No biological activity data is available at this time.
<b>Molecular Mass</b>	Monomer, 7.8 kDa (69 aa)
<b>AA Sequence</b>	APMGSDPPTACCFSTARKLPRNFVVDYYETSSLCSQPAVVFQTKRGKQVCADPS ESWVQEYVYDLELN
<b>Endotoxin</b>	≤1 EUs/μg, Kinetic LAL
<b>Purity</b>	≥95%, Reducing and Non-Reducing SDS PAGE
<b>Stability</b>	12 months from date of receipt when stored at -20 to -80 centigrade as supplied.

 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

1 month when stored at 4 centigrade after reconstituting as directed.  
 3 months when stored at -20 to -80 centigrade after reconstituting as directed.

**Storage** Storage Prior to Reconstitution: -20 centigrade

**Storage Buffer** Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)

**Reconstitution** Sterile water at 0.1 mg/mL

**Shipping** Room temperature

**Instructions** Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

## GENE INFORMATION

**Gene Name** CCL4 chemokine (C-C motif) ligand 4 [ Homo sapiens (human) ]

**Official Symbol** CCL4

**Synonyms** CCL4; chemokine (C-C motif) ligand 4; LAG1, SCYA4, small inducible cytokine A4 (homologous to mouse Mip 1b); C-C motif chemokine 4; Act 2; AT744.1; MIP 1 beta; PAT 744; SIS-gamma; MIP-1-beta(1-69); CC chemokine ligand 4; secreted protein G-26; T-cell activation protein 2; small-inducible cytokine A4; lymphocyte-activation gene 1; G-26 T-lymphocyte-secreted protein; lymphocyte activation gene 1 protein; macrophage inflammatory protein 1-beta; small inducible cytokine A4 (homologous to mouse Mip-1b); ACT2; G-26; HC21; LAG1; LAG-1; MIP1B; SCYA2; SCYA4; MIP1B1; MIP-1-beta; MGC104418; MGC126025; MGC126026;

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Gene ID	6351
mRNA Refseq	NM_002984
Protein Refseq	NP_002975
MIM	182284
UniProt ID	P13236

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