

## 32-12250: Human Macrophage Inflammatory Protein-1 beta (CCL4)

**Gene :** CCL4  
**Gene ID :** 388372  
**Uniprot ID :** P13236  
**Alternative Name :** C-C motif chemokine 4, G-26 T-lymphocyte-secreted protein, Lymphocyte activation gene 1 protein, Macrophage inflammatory protein 1-beta

### Description

**Source:** Genetically modified E.coli.

**Predicted MW:** Monomer, 7.8 kDa (69 aa)

Macrophage inflammatory protein-1 beta (MIP-1 beta), also known as CCL4, is produced by macrophages and functions as a mitogen-inducible cytokine. MIP-1 beta signals through the chemokine receptor CCR5 to chemoattract immune cells. MIP-1 beta induces inflammatory responses, including neutrophil superoxide production. The MIP-1 beta and MIP-1 alpha heterodimer exhibits antiviral activity against the human immunodeficiency virus 1 (HIV-1).

### Product Info

**Amount :** 10 µg / 100 µg  
**Purification :** Reducing and Non-Reducing SDS PAGE at >= 95%  
 Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)  
**Content :** Sterile water at 0.1 mg/mL  
**Storage condition :** Store at -20°C  
**Amino Acid :** APMGSDPPTA CCFSYTARKL PRNFVVDYYE TSSLCSQPAV VFQTKRGKQV CADPSESWWQ EYVYDLELN

### Application Note

**Endotoxin:** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.

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°C and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vial to compensate for this loss.



