

DATA SHEET

GFH134

Recombinant Human MIP-1 β / CCL4

Description

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

Length69 aaMolecular Weight7.8 kDaSourceE. coliAccession NumberP13236

Purity ≥95% determined by reducing and non-reducing SDS-PAGE

Specifications

Alternative Names Monocyte Chemotactic Protein 1, CCL2, JE, MCAF

 $\textbf{Biological Activity} \qquad \qquad \text{Human MIP-1 } \beta \text{ is fully biologically active when compared to standard. The activity is determined by the ability to}$

induce chemotaxis of human PBMC cells.

Endotoxin Level ≤1.00 EU/µg as measured by kinetic LAL

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

AA Sequence APMGSDPPTA CCFSYTARKL PRNFVVDYYE TSSLCSQPAV VFQTKRGKQV CADPSESWVQ EYVYDLELN

Preparation and Storage

Reconstitution Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial

to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with

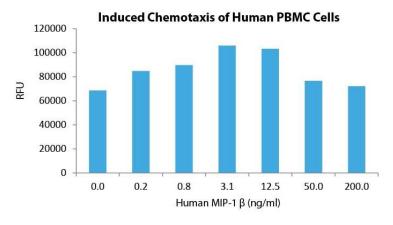
sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions.

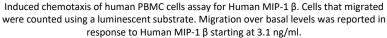
Stability and Storage 12 months from date of receipt when stored at -20°C to -80°C as supplied.

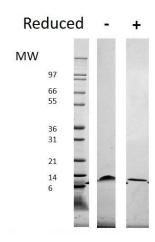
1 month when stored at 4°C after reconstituting as directed.

3 months when stored at -20 $^{\circ}\text{C}$ to -80 $^{\circ}\text{C}$ after reconstituting as directed.

Data







Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 μ g of protein was loaded in each lane. Human MIP-1 β has a predicted Mw of 7.8