

GFM43 Recombinant Mouse 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).

Length	69 aa
Molecular Weight	7.8 kDa
Source	E. coli
Accession Number	P13236
Purity	\geq 95% determined by reducing and non-reducing SDS-PAGE

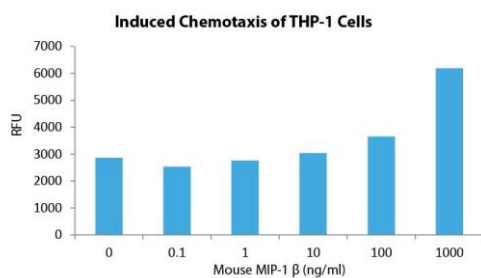
Specifications

Alternative Names	Monocyte Chemotactic Protein 1, CCL2, JE, MCAF
Biological Activity	Mouse MIP-1 β is fully biologically active when compared to standard. The activity is determined by the ability to induce chemotaxis of THP-1 cells.
Endotoxin Level	\leq 1.00 EU/ μ g 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 CCFSTARKL PRNFVVDIYE TSSLCSQPAV VFQTKRGKQV CADPSESQVQ EYVDLELN

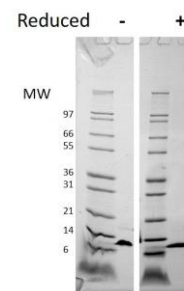
Preparation and Storage

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°C to -80°C after reconstituting as directed.

Data



Induced chemotaxis of THP-1 cells assay for Mouse MIP-1 β . Cells that migrated were counted using a luminescent substrate. Migration over basal levels was reported in response to Mouse MIP-1 β starting at 100 ng/ml.



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. Mouse MIP-1 β has a predicted Mw of 7.8 kDa.