



Recombinant Human MIP-1 β / CCL4
(Macrophage Inflammatory Protein-1 beta)

Catalog Number: 100-134
Accession Number: P13236

Specifications and Uses:

Alternate Names: CCL4, ACT-2

Description:

Macrophage Inflammatory Protein-1 beta (MIP-1 β), also known as CCL4, is produced by macrophages and thought to induce inflammatory responses, including superoxide production by neutrophils. MIP-1 α and MIP-1 β can exist as a naturally occurring heterodimer has been shown to have antiviral activity against HSV-1. Recombinant human MIP-1 β is a non-glycosylated protein, containing 69 amino acids, with a molecular weight of 7.6 kDa.

Source: *E.coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation and Stability:

Recombinant human MIP-1 β is lyophilized with no additives.

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term 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 a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity (typically \geq 98%) determined by:

HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

Endotoxin Level:

Measured by kinetic LAL analysis and is typically \leq 1 EU/ μ g protein.

Biological Activity:

The activity is determined by its ability to chemoattract human PBMCs or THP-1 cells and is typically 2.5 - 15 ng/mL.

AA Sequence:

APMGSDPPTA CCFSYTARKL PHNFVVDYIE TSSLCSQPAV VFQTKRGKQV CADPSES WVQ EYVYDLELN

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!

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