GFR23 Recombinant Rat MIP-1 α / CCL3

Description

Macrophage Inflammatory Protein 1 α (MIP-1 α), also known as CCL3, is a cytokine produced by macrophages. MIP-1 α binds the chemokine receptors CCR1, CCR4 and CCR5 to induce inflammatory responses, including the recruitment of granulocytes and neutrophil superoxide production. The MIP-1 α and MIP-1 β heterodimer exhibits antiviral activity against the human immunodeficiency virus 1 (HIV-1).

Length	70 aa
Molecular Weight	7.8 kDa
Source	E. coli
Accession Number	P10147
Purity	≥95% determined by reducing and non-reducing SDS-PAGE

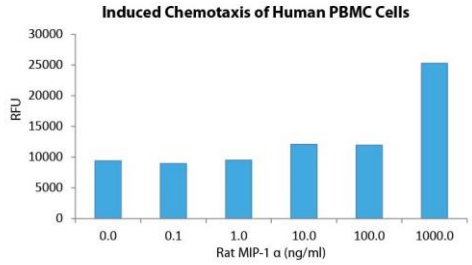
Specifications

Alternative Names	Monocyte Chemotactic Protein 1, MIP-1 alpha, CCL3
Biological Activity	Rat MIP-1 α is fully biologically active when compared to standard. The activity is determined by the ability to induce chemotaxis of THP-1 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	ASLAADTPTA CCFSYTSRQI PQNFIADYFE TSSQCSKPGV IFLTKRSRQV CADPSEEWVQ KYVSDLELSA

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 Rat MIP-1 α. Cells that migrated were counted using a luminescent substrate. Migration over basal levels was reported in response to Rat MIP-1 α starting at 10 ng/ml.