Ccl3
Recombinant Mouse MIP-1 alpha / CCL3

Catalog No.	CRM401A	**Quantity:**	2 µg
	CRM401B		10 µg
	CRM401C		1.0 mg
	CRM401D		100 µg

Alternate Names: C-C motif chemokine, Macrophage Inflammatory Protein-1 alpha

Description: Macrophage Inflammatory Protein-1 alpha belongs to a family of chemotactic cytokines known as chemokines. MIP-1 alpha and MIP-1 beta are the 2 major forms, officially named CCL3, and CCL4, respectively. Both are produced by macrophages following stimulation by bacterial endotoxin, and activate granulocytes to induce inflammatory responses, including superoxide production by neutrophils. MIP-1alpha can exist as a naturally occurring heterodimer with MIP-1beta and has been shown to have antiviral activity against HSV-1.

UniProt ID: Q5QNW0

Gene ID: 20302

Source: *E. coli*

Molecular Weight: 7.8 kDa (69 aa) monomer

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

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

Endotoxin Level: ≤ 1 EU/µg, by kinetic LAL analysis

Biological Activity: ED_{50} ≤ 100 ng/ml, determined by dose-dependent chemotaxis with THP-1 cells. Product demonstrates dose-dependent chemotaxis with human PBMC.

Amino Acid Sequence: APYGADTPTA CCFSYSRKIP RQFIVDYFET SSLCSQPGVI FLTKRNRQIC ADSKETWVQE YITDLELNA

Reconstitution: **Centrifuge vial prior to 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.

Storage & Stability: Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage.
Avoid repeated freeze-thaw cycles.

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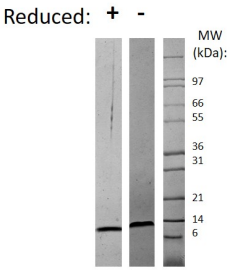

Mouse MIP-1 alpha Gel
Figure: 1 ug run under (+) reducing and (-) non-reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Mouse MIP-1 alpha has predicted MW of 7.9 kDa.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

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