

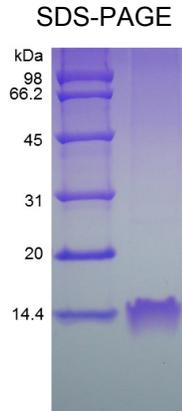
CCL3

Recombinant Human Macrophage Inflammatory Protein 1 alpha

Catalog No.	CRM400A CRM400B CRM400C	Quantity:	5 µg 20 µg 1.0 mg
Alternate Names:	Macrophage Inflammatory Protein 1-alpha, CCL3, LD78-alpha, MIP1A, MIP-1-alpha, SCI, SCYA3, SIS-beta, TY5		
Description:	<p>Recombinant Human MIP-1 alpha contains 70 amino acids, including the four highly conserved cysteine residues present in CC chemokines.</p> <p>Background: Both MIP-1 alpha and MIP-1 beta are structurally and functionally related CC chemokines. They participate in the host response to invading bacterial, viral, parasite and fungal pathogens by regulating the trafficking and activation state of selected subgroups of inflammatory cells e.g. macrophages, lymphocytes and NK cells. While both MIP-1 alpha and MIP-1 beta exert similar effects on monocytes their effect on lymphocytes differ: with MIP-1 alpha selectively attracting CD8+ lymphocytes and MIP-1 beta selectively attracting CD4+ lymphocytes. Additionally, MIP-1 alpha and MIP-1 beta have also been shown to be potent chemoattractants for B cells, eosinophils and dendritic cells. Both human and mouse MIP-1 alpha and MIP-1 beta are active on human and mouse hematopoietic cells.</p>		
Gene ID:	6348		
Source:	<i>E. coli</i>		
Molecular Weight:	~7.8 kDa		
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, + 100 mM NaCl.		
Purity:	>96% as determined by HPLC and SDS-PAGE analyses.		
Endotoxin Level:	<1 EU/µg of recombinant human MIP-1α/CCL3 as determined by LAL method.		
Biological Activity:	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human monocytes is in a concentration range of 1.0-10 ng/ml.		
Amino Acid Sequence:	ASLAADTPTA CCFSYTSRQI PQNFIADYFE TSSQCSKPGV IFLTKRSRQV CADPSEEWVQ KYVSDLELSA		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.		
Storage & Stability:	The lyophilized protein is stable at 2-8°C. Upon receipt, store desiccated at -20°C. After reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C		



to -80°C. For long term storage of reconstituted protein, it is recommended that a carrier protein such as 0.1% BSA or HSA be added. This depends on the particular application.
Avoid repeated freeze/thaw cycles.



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