

CCL18

Recombinant Human MIP-4

Catalog No.	CRM410A CRM410B CRM410C	Quantity:	2 µg 10 µg 1.0 mg
Alternate Names:	Macrophage Inflammatory Protein-4, PARC, DC-CK1, AMAC-1		
Description:	<p>CCL18 is a novel CC chemokine that is highly homologous to MIP-1α (61% amino acid sequence identity). CCL18 cDNA encodes an 89 aa residue precursor protein with a 20 aa putative signal peptide that is cleaved to generate a 69 aa residue mature protein which lacks potential glycosylation sites. <i>In vitro</i>, CCL18 mRNA expression is induced in alternatively activated macrophages by Th2 cytokines such as IL-4, IL-10 and IL-13, and inhibited by IFN-γ. CCL18 mRNA is also expressed by GM-CSF/IL-4-induced monocyte-derived dendritic cells. <i>In vivo</i>, CCL18 is highly expressed in lung and placenta but is not expressed in epidermal Langerhans cells. Recombinant CCL18 has been shown to chemoattract naive T cells, but not monocytes or neutrophils.</p> <p>Recombinant human MIP-4 is a single, non-glycosylated polypeptide chain containing 69 amino acids.</p>		
Source:	<i>E. coli</i>		
Molecular Weight:	7.8 kDa		
Formulation:	Lyophilized from a 0.2µm filtered concentrated (1.0mg/mL) solution in 20 mM PB, pH 7.4, 100 mM NaCl.		
Purity:	>98% by SDS-PAGE and HPLC		
Endotoxin Level:	<0.1 ng per µg (1 EU/µg).		
Biological Activity:	Determined by its ability to chemoattract human T lymphocytes using a concentration of 1.0-10.0 ng/mL.		
Amino Acid Sequence:	AQVGTNKELCCLVYTSWQIPQKFIVDYSETSPQC PKPGVILLTKRGRQICADPNKKWVQ KYISDLKLNA		
Reconstitution:	<p>Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Further dilutions should be made in appropriate buffered solutions.</p>		
Storage & Stability:	<p>Stable at 2-8°C, but best kept desiccated -20°C. Upon reconstitution, stable for up to 1 week at 2-8°C. For longer term, store in working aliquots below -20°C. Avoid repeated freeze/thaw cycles.</p>		

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