

## CCL18

### Recombinant Human MIP-4

<b>Catalog No.</b>	CRM410A CRM410B CRM410C	<b>Quantity:</b>	2 µg 10 µg 1.0 mg
<b>Alternate Names:</b>	Macrophage Inflammatory Protein-4, PARC, DC-CK1, AMAC-1		
<b>Description:</b>	<p>CCL18 is a novel CC chemokine that is highly homologous to MIP-1<math>\alpha</math> (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-<math>\gamma</math>. 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>		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	7.8 kDa		
<b>Formulation:</b>	Lyophilized from a 0.2µm filtered concentrated (1.0mg/mL) solution in 20 mM PB, pH 7.4, 100 mM NaCl.		
<b>Purity:</b>	>98% by SDS-PAGE and HPLC		
<b>Endotoxin Level:</b>	<0.1 ng per µg (1 EU/µg).		
<b>Biological Activity:</b>	Determined by its ability to chemoattract human T lymphocytes using a concentration of 1.0-10.0 ng/mL.		
<b>Amino Acid Sequence:</b>	AQVGTNKELCCLVYTSWQIPQKFIVDYSETSPQCPKPGVILLTKRGRQICADPNKKWVQ KYISDLKLNA		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. <b>Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed.</b> Further dilutions should be made in appropriate buffered solutions.		
<b>Storage &amp; Stability:</b>	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. <b>Avoid repeated freeze/thaw cycles.</b>		

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



Cell Sciences®  
480 Neponset Street  
Bldg 12A  
Canton, MA 02021

Toll Free: 888-769-1246  
Phone: 781-828-0610  
Fax: 781-828-0542

E-mail: [info@cellsciences.com](mailto:info@cellsciences.com)  
Website: [www.cellsciences.com](http://www.cellsciences.com)