

## Overview

<b>Synonyms</b>	MIP-1 <sup>2</sup> , Macrophage Inflammatory Protein-1 <sup>2</sup> , CCL4, ACT-2
<b>Description</b>	<p><b>Macrophage inflammatory protein 1 beta (MIP-1<sup>2</sup>)</b>, also known as Chemokine (C-C motif) ligand 4 (CCL4), is a small cytokine belonging to the CC chemokine family. It is a chemo attractant for natural killer cells, monocytes and a variety of other immune cells. MIP-1<sup>2</sup> is a major HIV-suppressive factor produced by CD8<sup>+</sup> T cells. Perforin-low memory CD8<sup>+</sup> T cells are the most common T-cells that normally synthesize MIP-1-beta in humans. MIP-1<sup>2</sup> has been shown to interact with CCL3. It can signal through the CCR5 receptor.</p> <p>Recombinant <b>MIP-1 beta/CCL4</b> produced in <i>CHO</i> is a polypeptide chain containing 69 amino acids. A fully biologically active molecule, rhMIP-1 beta/CCL4 has a molecular mass of 10-19 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.</p>
<b>Source</b>	<i>CHO</i>
<b>Biological Activity</b>	The EC <sub>50</sub> value of human MIP-1 beta /CCL4 on Ca <sup>2+</sup> mobilization assay in CHO-K1/ G <sub>±</sub> 15/hCCR5 cells (human G <sub>±</sub> 15 and human CCR5 stably expressed in CHO-K1 cells) is less than 150 ng/ml.
<b>Sequence</b>	Ala <sup>24</sup> -Asn <sup>92</sup> (Accession #: P13236.1)

## Properties

<b>Measured Molecular Weight</b>	10-19 kDa, observed by reducing SDS-PAGE.
<b>Purity</b>	> 95% as analyzed by SDS-PAGE and HPLC.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 µg/ml.
<b>Endotoxin Level</b>	< 0.2 EU/µg, determined by LAL method.
<b>Storage</b>	Lyophilized recombinant <b>Human MIP-1<sup>2</sup> /CCL4</b> remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human MIP-1 <sup>2</sup> /CCL4 should be stable up to 1 week at 4°C or up to 3 months at -20°C.
<b>Note</b>	For research use only

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