

## Overview

<b>Synonyms</b>	HCC-2, LKN-1, MIP-1 delta
<b>Description</b>	<b>Macrophage Inflammatory Protein-5 (MIP-5/CCL15)</b> is a chemokine originally identified in the human hemofiltrate, thus it is also named Hemofiltrate CC Chemokine-2 (HCC-2). MIP-5 belongs to the CCL chemokine family, and its receptors are G-protein coupled receptors CCR1 and CCR3, with CCR1 being the major one. MIP-5 is mainly expressed in heart and skeletal muscle, and CCR1 is expressed on Th1 and Th2 cells in human cord blood lymphocytes. In <i>vivo</i> , MIP-5 promotes the accumulation of immature myeloid cells and the expansion of metastatic foci in the liver. MIP-5 contributes to severe asthma, sarcoidosis, and atherosclerosis; however, MIP-5 can also inhibit stem cell proliferation, implicating its therapeutic potential as an alternative to high dose chemotherapy. Recombinant <b>human MIP-5/CCL15 (rhMIP-5/CCL15)</b> produced in <i>E.coli</i> is a single non-glycosylated polypeptide chain containing 92 amino acids. A fully biologically active molecule, rhMIP-5/CCL15 has a molecular mass of 10.2 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
<b>Accession No</b>	Q16663
<b>Species</b>	Human
<b>Source</b>	<i>E. coli</i>
<b>Biological Activity</b>	ED <sub>50</sub> < 2 µg/mL, measured by the FLIPR assay using CHO cells transfected with human CCR1, the receptor of human CCL15, corresponding to a specific activity of > 500 units/mg.
<b>Sequence</b>	QFTNDAETEL MMSKLPLENP VVLNSFHFAA DCCTSYISQS IPC SLMKSYF ETSSECSKPG VIFLTKKGRQ VCAKPSGPGV QDCMKKLPY SI

## Properties

<b>Measured Molecular Weight</b>	10.2 kDa, observed by reducing SDS-PAGE.
<b>Purity</b>	> 95% by SDS-PAGE analysis.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O at 100 µg/mL.
<b>Endotoxin Level</b>	< 0.2 EU/µg, determined by LAL method.
<b>Storage</b>	Lyophilized recombinant <b>human MIP-5/CCL15 (rhMIP-5/CCL15)</b> remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhMIP-5/CCL15 remains stable up to 2 weeks at 4°C or up to 3 months at -20°C.
<b>Note</b>	For research use only

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