Overview

Synonyms	Macrophage Inflammatory Protein-1² , CCL4, ACT-2
Description	Macrophage inflammatory protein 1 beta (MIP-1²), also known as Chemokine (C-C motif) ligand 4(CCL4), is a small cytokine belonging to the CC chemokine family. It is a chemoattractant for natural killer cells, monocytes and a variety of other immune cells. MIP-1² is a major HIV-suppressive factor produced by CD8+ T cells. Perforin-low memory CD8+ T cells are the most common T-cells that normally synthesize MIP-1-beta in humans. MIP-1² has been shown to interact with CCL3. It can signal through the CCR5 receptor. Recombinant **MIP-1 beta/CCL4** produced in *E. coli* is a single non-glycosylated polypeptide chain containing 69 amino acids. A fully biologically active molecule, rhMIP-1 beta/CCL4 has a molecular mass of 7.6 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Accession No	P13236
Species	Human
Source	*E. coli*
Biological Activity	The EC_{50} value of human MIP-1 beta /CCL4 on Ca^{2+} mobilization assay in CHO-K1/ G±15/hCCR5 cells (human G±15 and human CCR5 stably expressed in CHO-K1 cells) is less than 100 ng/ml.
Sequence	APMGSDPPTA CCFSYTARKL PRNFVVDYYE TSSLCSQPAV VFQTKRSKQV CADPSESWVQ EYVYDLELN

Properties

Measured Molecular Weight	7.6 kDa, observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH_2O or PBS at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant **human MIP-1 beta /CCL4** remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, human MIP-1 beta /CCL4 should be stable up to 1 week at 4°C or up to 2 months at -20°C.
Note	For research use only

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