

Overview

Synonyms	Macrophage Inflammatory Protein-3, CCL23, MPIF-1, Ck-beta8, MIP-3
Description	Myeloid progenitor inhibitory factor 1 (MPIF-1), also known as Chemokine (C-C motif) ligand 23 (CCL23) is a small cytokine belonging to the CC chemokine family. MPIF-1 is predominantly expressed in lung and liver tissue, but is also found in bone marrow and placenta. It is also expressed in some cell lines of myeloid origin. It is highly chemotactic for resting T cells and monocytes and slightly chemotactic for neutrophils. MPIF-1 has been shown to inhibit colony formation of bone marrow myeloid immature progenitors. It has also been attributed to an inhibitory activity on hematopoietic progenitor cells. MPIF-1 is a ligand for the chemokine receptor CCR1. Recombinant human MPIF-1/CCL23 (aa46-120) produced in CHO cells is a single polypeptide chain containing 75 amino acids. A fully biologically active molecule, rhMPIF-1/CCL23 (aa46-120) has a molecular mass of 11.3 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Accession No	P55773
Species	Human
Source	CHO
Biological Activity	The EC ₅₀ value of human MPIF-1/CCL23 (aa46-120) on Ca ²⁺ mobilization assay in CHO-K1/ G _± 15/hCCR1 cells (human G _± 15 and human CCR1 stably expressed in CHO-K1 cells) is less than 1 µg/ml.
Sequence	RFHATSADCC ISYTPRSIPC SLLESYFETN SECSKPGVIF LTKKGRRFCA NPSDKQVQVC VRMLKLDTRI KTRKN

Properties

Measured Molecular Weight	11.3 kDa, observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant Human MPIF/CCL23 (aa46-120) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human MPIF/CCL23 (aa46-120) should be stable up to 1 week at 4°C or up to 3 months at -20°C.
Note	For research use only

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