9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

MIP 3 Human

Macrophage Inflammatory Protein-3 Human Recombinant (CCL23)
CHK0129

Product Overview

Name	MIP 3 Human
Description	
Macrophage Inflammatory Protein-3 Human Recombinant (CCL23)	
Accession (Primary)	P55773
Synonyms	
C-C motif chemokine 23, Small-inducible cytokine A23, Macrophage inflammatory protein 3, Myeloid progenitor inhibitory factor 1, CK-beta-8, MIP-3, MPIF-1, CKB-8, CCL23, MIP3, MPIF1, SCYA23, CKb8, Ckb-8-1.	
Introduction	
CCL23 (MIP-3) is a ligand for the CCR1chemokine receptor. CCL23 is one of several cytokine genes clustered on the q-arm of chromosome 17, in a locus containing several other CC chemokines. MIP-3 chemoattracts monocytes, resting T-lymphocytes and neutrophils, but not activated lymphocytes. Furthermore, it was shown that MIP-3 inhibits colony formation of bone marrow myeloid immature progenitors. MIP-3 is mainly expressed in lung and liver tissue, but can be also found in bone marrow and placenta, as well as in some cell lines of myeloid origin. Alternative splicing of the CCL23 gene produces 2 mRNAs which encode a short (CK?8) and a long (CK?81) isoform of the MIP-3. CK?8 cDNA encodes a 120 amino acid residue precursor protein with a putative 21 a.a. residue signal peptide which is cleaved to generate a 99 a.a. residue mature CK?8 (a.a. 22-120). Further N-terminal processing of the 99 a.a. residue variant can produce a 75 a.a. residue CK?8 (a.a. 46-120) which is considerably more active than the 99 a.a. residue variant. MIP-3 may be involved in the malignant progression of certain human cancer cells which overexpress ErbB2 through the transactivation of ErbB2 tyrosine kinase. MIP-3 may also be involved in angiogenesis via upregulation of matrix metalloproteinase MMP-2 expression.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Filtered (0.2 µm) and lyophilized from a concentrated (1mg/ml) solution in 20mM PB, pH 7.4, 150mM NaCl.	
Stability	
Lyophilized MIP-3 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon	

9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

reconstitution CCL23 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Amino acid sequence

RVTKDAETEF MMSKLPLENP VLLDRFHATS ADCCISYTPR SIPCSLLESYFETNSECSKP GVIFLTKKGR RFCANPSDKQ VQVCMRMLKL DTRIKTRKN.

Biological Activity

Determined by its ability to chemoattract human T cell population using a concentration range of 10-50ng/ml corresponding to a Specific Activity of 20,000-100,000IU/mg.

Solubility

It is recommended to reconstitute the lyophilized MIP-3 in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

MIP 3 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P55773)