

## MPIF-1/CCL23 Protein, Human, Recombinant (His)

### General Information

Synonyms:	MIP3;MIP-3;Ckb-8-1;CK-BETA-8;Ckb-8;MPIF-1;MPIF1;SCYA23;CCL23;hmrp-2a;CKb8; chemokine (C-C motif) ligand 23;CK-β-8
Protein Construction:	A DNA sequence encoding the human CCL23 (P55773.3) (Arg46-Asn120) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Arg 46
Species:	Human
Expression Host:	P. pastoris (Yeast)
Accession:	P55773.3
Molecular Weight:	9.9 kDa (predicted)

### QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

CCL23, also known as MIP 3, is a small cytokine which belongs to the CC chemokine family. Cytokines are a family of secreted proteins involved in immunoregulatory and inflammatory processes. CCL23 is predominantly expressed in lung and liver tissue, but also can be detected in bone marrow and placenta. It displays chemotactic activity on resting T lymphocytes and monocytes, lower activity on neutrophils and no activity on activated T

lymphocytes. CCL23 is also a strong suppressor of colony formation by a multipotential hematopoietic progenitor cell line.

### Reference

Poposki JA. et al., 2011, J Allergy Clin Immunol. 128 (1): 73-81.

Matsumoto K. et al., 2011, Int Arch Allergy Immunol. 155 (1): 34-9.

Kim CS. et al., 2011, Inflamm Res. 60 (9): 889-95.

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