

MIP-1 alpha/CCL3 Protein, Human, Recombinant (His)

General Information

Synonyms:	LD78 α ; chemokine (C-C motif) ligand 3; MIP-1-alpha; GOS19-1; MIP-1- α ; SCYA3; MIP1A; LD78ALPHA; MIP-1 α
Protein Construction:	A DNA sequence encoding human CCL3 (NP_002974.1) (Ala23-Ala92) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Ala 23
Species:	Human
Expression Host:	P. pastoris (Yeast)
Accession:	A0N0R1
Molecular Weight:	9.2 kDa (predicted); 14 kDa (reducing conditions)

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:	> 95 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m 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:	Reconstituted with sterile deionized water to 0.13 mg/mL. Reconstitution conditions may vary depending on the lot.
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. <small>Actual storage temperature shall be subject to the COA.</small>

Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.
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Protein Background

CCL3 is a cytokine belonging to the CC chemokine family. Chemokines are a family of structurally related leukocyte chemoattractant cytokines that play a central role during immunoregulatory and inflammation processes. All chemokines contain four conserved cysteines linked by disulfide bonds, and two major subfamilies, namely CXC and CC, are defined on the basis of the first two cysteines which are separated by one amino acid or are adjacent.

CCL3 is involved in the acute inflammatory state in the recruitment and activation of polymorphonuclear leukocytes. Cancer Immunotherapy Immune Checkpoint Immunotherapy Targeted Therapy

Reference

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Joseph AM, et al. (2005) Nef: "necessary and enforcing factor" in HIV infection. Curr HIV Res. 3(1):87-94.

Muthumani K, et al. (2004) HIV-1 Vpr and anti-inflammatory activity. DNA Cell Biol. 23(4): 239-47.

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