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Human C-C Motif Chemokine 3 (hCCL3/MIP-1-α)

For Research Use Only. Not for Use in Diagnostic Procedures.

MW (kDa):	UniProt ID:	Entrez-Gene Id:
8	#P10147	6348

Background

CCL3, also known as MIP-1-α, or LD78α, is an 8 kDa member of the C-C family of chemokines, which play key roles in immune surveillance, inflammation, and infection (1). CCL3 shares 68% amino acid identity with CCL4 (MIP-1-β) and 94% amino acid identity with LD78β (1). CCL3 is produced by activated monocytes, activated macrophages, NK cells, and T cells among others (1). There are two receptors for CCL3: CCR1 and CCR5 (1). CCL3 inhibits R5 HIV-1 infection by competing with the virus for its co-receptor, CCR5 (1). CCL3 polymorphisms are associated with risk for the development of rheumatoid arthritis and ulcerative colitis (2,3).

Endotoxin

Less than 0.01 ng endotoxin/1 μg hCCL3.

Purity

>98% as determined by SDS-PAGE of 6 μg reduced (+) and non-reduced (-) recombinant hCCL3. All lots are greater than 98% pure.

Source / Purification

Recombinant human CCL3 (hCCL3) Ala27-Ala92 (Accession #NP_002974) was produced in *E. coli* at Cell Signaling Technology.

Bioactivity

The activity of hCCL3 was determined using a THP-1 cell migration assay. The ED₅₀ of each lot is between 0.5-1.2 ng/ml.

Background References

1. Menten, P. et al. (2002) *Cytokine Growth Factor Rev* 13, 455-81.
2. Zhang, R. et al. (2010) *Int J Immunogenet* 37, 273-8.
3. Li, K. et al. (2009) *Int J Colorectal Dis* 24, 13-7.

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