Recombinant Human Chemokine (C-C motif) Ligand 3

Cat. No. CCL3-79H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human chemokine (C-C motif) ligand 3 G0S19-1 protein sequence (containing the signal peptide sequence, and the mature human Interleukin 4 sequence) was expressed in modified*human 293 cells*.
Species	Human
Source	HEK293
Description	Human Macrophage inflammatory protein-1alpha (MIP-1 alpha; MIP-1a) belongs to the chemokine family. Chemokines are small secreted molecules containing 4 conserved cysteine residues and 2 disulfide linkages. MIP-1 alpha is constitutively expressed from platelets and bone marrow CD34 progenitor cells. MIP-1 alpha expression can also be induced by bacteria or bacterial products such as LPS in monocyte/macrophages, dendritic cells, neutrophils, microglial cells and in activated B and T cells.
Amino Acid Sequence	ADTPTACCFSYT SRQIPQNFIAD YFETS SQCS KPGVIFL TKRSRQV CADPSE EW VQ KY VSDLELSA.
Molecular Mass	MIP-1 alpha migrates in SDS-PAGE at approximately 10 kDa. This compares with the predicted molecular mass of 7.4kDa.
PI	MIP-1 alpha migrates in 2D PAGE with an observed pI of 4.8. This compares with the predicted pI of 4.77.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	>95%, as determined by SDS-PAGE and visualized by silver stain.
Formulation	When reconstituted in 0.5 ml sterile phosphate-buffered saline, the solution will contain 1% human serum albumin (HSA) and 10% trehalose.
Reconstitution	It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial. Working concentrations of MIP-1 alpha should be less than 100ng/ml to avoid aggregation.
Storage	Lyophilized products should be stored at 2 to 8°C. Following reconstitution short-term storage at 4°C is recommended, and longer-term storage of aliquots at -18 to -20°C. Repeated freeze thawing is not recommended.

GENE INFORMATION

Gene Name	CCL3 chemokine (C-C motif) ligand 3 [Homo sapiens]
Synonyms	CCL3; chemokine (C-C motif) ligand 3; G0S19-1; LD78ALPHA; MIP-1-alpha; MIP1A; SCYA3; LD78 alpha beta; small inducible cytokine A3 (homologous to mouse Mip-1a); G0/G1 switch regulatory protein 19-1; Macrophage inflammatory protein 1-alpha; SIS-beta; Tonsillar lymphocyte LD78 alpha protein; Small-inducible cytokine A3
Gene ID	6348
mRNA Refseq	NM_002983
Protein Refseq	NP_002974
MIM	182283
UniProt ID	P10147

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Chromosome Location	17q11-q21
Pathway	Cytokine-cytokine receptor interaction; Chemokine signaling pathway; Toll-like receptor signaling pathway
Function	chemoattractant activity; chemokine activity; signal transducer activity
PDB rendering based on 1b50.	

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA