

## Active Recombinant Human CCL3L1 Protein (70 aa)

Cat. No. CCL3L1-343C Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human LD78-beta/CCL3L1 (rhLD78-beta) produced in E. coli is a single non-glycosylated polypeptide chain containing 70 amino acids. A fully biologically active molecule, rhLD78-beta has a molecular mass of 7.8 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	70
<b>Description</b>	LD78-beta/CCL3L1 is a proinflammatory chemokine and the isoform of Macrophage Inflammatory Protein-1 alpha (MIP-1 alpha). LD78-beta is secreted by most mature leukocytes, predominantly macrophages, and its major receptor is the G-protein coupled receptor CCR5, which is also the co-receptor used by the HIV-1 virus for cell entry. LD78-beta has superior antiviral activity and induces a variety of immune cells, particularly CD8+ T cells and immature dendritic cells. LD78-beta attracts lymphocytes and macrophages to sites of inflammation and infection, and its functions are inhibited by Interleukin-4, Interleukin-10, and Interleukin-13. Importantly, the copy number variation of LD78-beta is associated with HIV susceptibility, indicating LD78-beta's critical role in the disease.
<b>Form</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Bio-activity</b>	ED50 < 0.4

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	µg/mL, measured by the FLIPR assay using CHO cells transfected with human CCR5, the receptor of human CCL3L1, corresponding to a specific activity of > 2.5 × 10 <sup>3</sup> units/mg.
<b>Molecular Mass</b>	7.8 kDa, observed by reducing SDS-PAGE.
<b>AA Sequence</b>	APLAADTPTACCFSYTSRQIPQNFADYFETSSQCCKPSVIFLTKRGRQVCADPSEE WVQKYVSDLELSA
<b>Endotoxin</b>	< 0.2 EU/µg, determined by LAL method.
<b>Purity</b>	> 95% by SDS-PAGE and HPLC analysis.
<b>Storage</b>	Lyophilized recombinant human LD78-beta/CCL3L1 (rhLD78-beta) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rhLD78-beta remains stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
<b>Storage Buffer</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O at 100 µg/mL.

## GENE INFORMATION

<b>Gene Name</b>	CCL3L1 chemokine (C-C motif) ligand 3-like 1 [ Homo sapiens ]
<b>Official Symbol</b>	CCL3L1
<b>Synonyms</b>	CCL3L1; chemokine (C-C motif) ligand 3-like 1; D17S1718, SCYA3L, SCYA3L1, small inducible cytokine A3 like 1; C-C motif chemokine 3-like 1; G0S19 2; LD78BETA; PAT 464.2; LD78-beta(1-70); small inducible cytokine A3-like 1; small-inducible cytokine A3-like 1; G0/G1 switch regulatory protein 19-2; tonsillar

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



lymphocyte LD78 beta protein; LD78; 464.2; MIP1AP; SCYA3L; G0S19-2; SCYA3L1; D17S1718; MGC12815; MGC104178; MGC182017;

**Gene ID** 6349

**mRNA Refseq** NM\_021006

**Protein Refseq** NP\_066286

**MIM** 601395

**UniProt ID** P16619

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA