Active Recombinant Human CCL3L1 Protein (70 aa)

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
ProteinLength	70
Description	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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50< 0.4

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	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 × 10^3 units/mg.
Molecular Mass	7.8 kDa, observed by reducing SDS-PAGE.
AA Sequence	APLAADTPTACCFSYTSRQIPQNFIADYFETSSQCSKPSVIFLTKRGRQVCADPSEE WVQKYVSDLELSA
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% by SDS-PAGE and HPLC analysis.
Storage	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.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH2O at 100 μg/mL.

GENE INFORMATION

Gene Name	CCL3L1 chemokine (C-C motif) ligand 3-like 1 [Homo sapiens]
Official Symbol	CCL3L1
Synonyms	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

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	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

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