

## C-C motif chemokine 3-like 1 (CCL3L1), Human

**Cat.no.** PK0243

**Product size:** 5ug 25ug 1mg

**Source:** E. coli

**Species:** Human

**Biological Activity:** ED<sub>50</sub> < 0.4 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.

**Molecular Weight:** 7.8 kDa, observed by reducing SDS-PAGE.

**Formulation:** Lyophilized after extensive dialysis against PBS.

**Reconstitution:** Reconstituted in ddH<sub>2</sub>O at 100 µg/ml.

**Purity:** > 95% as analyzed by SDS-PAGE.

**Endotoxin Level:** < 0.2 EU/µg, determined by LAL method.

**Storage:** Lyophilized recombinant human CCL3L1 (rhCCL3L1) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhCCL3L1 remains stable up to 2 weeks at 4°C or up to 3 months at -20°C.

**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. Recombinant human LD78-beta/CCL3L1 (rhLD78-beta) produced in E.coli is a single non-glycosylated polypeptide chain containing 70 amino acids.

**Amino Acid Sequence:**

00001 APLAADTPTA CCFSYTSRQI PQNFIADYFE TSSQCSKPSV

00041 IFLTKRGRQV CADPSEEWVQ KYVSDLELSA

**Synonyms:** C-C motif chemokine 3-like 1, G0/G1 switch regulatory protein 19-2, LD78-beta(1-70), PAT 464.2, Small-inducible cytokine A3-like 1, Tonsillar lymphocyte LD78 beta protein, CCL3L1, D17S1718, G0S19-2, SCYA3L1, CCL3L3, LD78β, LD78-β

**Note:** For research use only, not for use in diagnostic procedure.