

Datasheet for ABIN2018186
CCL3L1 Protein (AA 24-93)



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Overview

Quantity:	25 µg
Target:	CCL3L1
Protein Characteristics:	AA 24-93
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 < 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 > 2.5x10 ³ units/mg.
Purity:	> 95 % by SDS-PAGE and HPLC analysis.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	CCL3L1
Alternative Name:	LD78-beta/ccl3l1 (CCL3L1 Products)
Background:	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

Target Details

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. A fully biologically active molecule, rhLD78-beta has a molecular mass of 7.8 kDa analyzed by reducing SDS-PAGE.

Synonyms: SCYA3L1

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

UniProt: [P16619](#)

Pathways: [Cellular Response to Molecule of Bacterial Origin](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstituted in ddH₂O at 100 µg/mL.

Buffer: Lyophilized after extensive dialysis against PBS.

Storage: -80 °C

Storage Comment: Lyophilized recombinant human LD78-beta/CCL3L1 (rhLD78-beta) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhLD78-beta remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

Expiry Date: 6 months