



Overview

Synonyms SCYA3L1

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

Description

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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 and is obtained by chromatographic techniques.

Accession No P16619
Species Human

Species Humar Source E. coli

ED₅₀< 0.4 μg/mL, measured by the FLIPR assay using CHO cells transfected with human

Biological Activity CCR5, the receptor of human CCL3L1, corresponding to a specific activity of >

2.5×10³ units/mg.

APLAADTPTA CCFSYTSRQI PQNFIADYFE TSSQCSKPSV

Sequence IFLTKRGRQV CADPSEEWVQ KYVSDLELSA

Properties

Measured Molecular 7.8 kDa, observed by reducing SDS-PAGE.

Weight
Purity > 95% by SDS-PAGE and HPLC analysis.

Formulation Lyophilized after extensive dialysis against PBS.

Reconstitution Reconstituted in ddH₂O at 100 μg/mL. Endotoxin Level < 0.2 EU/μg, determined by LAL method.

Lyophilized recombinant human LD78-beta/CCL3L1 (rhLD78-beta) remains stable up to

6 months at lower than -70°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.

Note For research use only

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura,

Delhi - 110034 (INDIA).

Storage

Mobile: +91-9810521400, Ph: +91-11-42208000 Email: customerservice@lifetechindia.com

Web: www.lifetechindia.com