Recombinant Human CCL3L1 Protein

Catalog No.: RP01834

Sequence Information

Species
Human

Gene ID
6349

Swiss Prot
P16619

Tags
C-His

Synonyms
LD78; 464.2; MIP1AP; SCYA3L; G0S19-2; SCYA3L1; D17S1718; LD78BETA; LD78-beta(1-70)

Product Information

Source
E. coli

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
8.63 kDa

Observed MW
10-15 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifμge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

The two human MIP-1 alpha genes arise by duplication/mutation. They code for MIP-1 alpha isoforms CCL3/LD78 alpha and CCL3L1/LD78 beta, which share 94% amino acid (aa) sequence homology. Whereas the human CCL3 /LD78 alpha is a single-copy gene, the human CCL3L1/LD78 beta gene copy number varies within the population. Human CCL3L1/LD78 beta cDNA encodes a 93 aa residue precursor with a 23 aa residue signal peptide that is cleaved to generate a 70 aa mature protein. Human CCL3L1/LD78 beta binds and signals through chemokine receptors CCR1 and CCR5. When compared to CCL3/LD78 alpha, CCL3L1/LD78 beta has higher binding affinity to CCR5, which also functions as a coreceptor for HIV-1 entry. The copy number of CCL3L1 is one of several genetic determinants of HIV-1 susceptibility (4).

Basic Information

Description
Recombinant Human CCL3L1 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Ala24-Ala93) of human CCL3L1 (Accession #NP_001001437.2) fused with a 6×His tag at the C-terminus.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

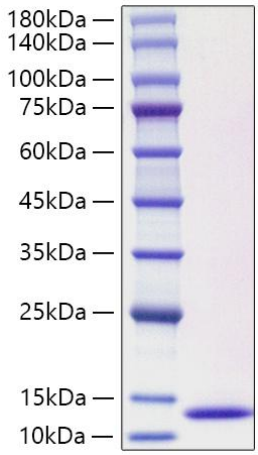
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Validation Data



Recombinant Human CCL3L1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.