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Recombinant Human CCL3L1 Protein

Catalog No.: RP01834 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	6349	P16619

Tags
C-His

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

Product Information

Source	Purification
E. coli	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
8.63 kDa	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
Centrifuge 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.

Contact

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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.

Bio-Activity

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

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

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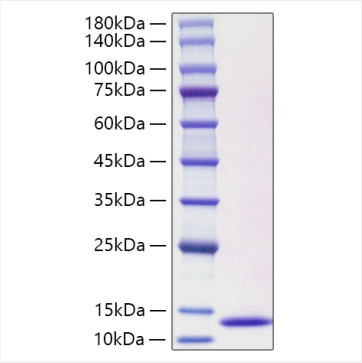
Validation Data



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

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