

Recombinant Human LD78 beta/CCL3L1

Information

Gene ID	6349
Accession #	P16619
Alternate Names	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
Source	Escherichia coli.
M.Wt	Approximately 7.8 kDa protein containing 70 amino acid residues, including the four highly conserved cysteine residues present in CC chemokines.
AA Sequence	APLAADTPTA CCFSYTSRQI PQNFIADYFE TSSQCSKPSV IFLTKRGRQV CADPSEEWVQ KYVSDLELSA
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 12 months from date of receipt, -20 to -70 °C as supplied - 1 month, 2 to 8 °C under sterile conditions after reconstitution - 3 months, -20 to -70 °C under sterile conditions after reconstitution
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Biological Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human monocytes is in a concentration range of 1.0-10 ng/ml.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	5μg	100μg	500μg
Recombinant Human LD78 beta/CCL3L1	5μg	100μg	500μg

Use a manual defrost freezer and avoid repeated freeze-thaw cycles

- 12 months from date of receipt, -20 to -70 °C as supplied
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 3 months, -20 to -70 °C under sterile conditions after reconstitution

Quality Control

Purity	> 97 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/ μ g of rHuLD78- β /CCL3L1 as determined by LAL method.

Description

CCL3L1, also named LD78-beta, is belonging to the intercrine beta (chemokine CC) family and it is encoded by the CCL3L1 gene in humans. This protein binds to several chemokine receptors including chemokine binding protein 2 (CCBP2 or D6) and chemokine (C-C motif) receptor 5 (CCR5). It is an inhibitor of HIV-1-infection and chemotactic for lymphocytes and monocytes. Recombinant human LD78 β is a 7.7 kDa protein containing 70 amino acid residues, including the four conserved cysteine residues present in CC chemokines.

Reference

1. Irving SG, Zipfel PF, Balke J, et al. 1990. Nucleic Acids Res. 18:3261-70
2. Hirashima M, Ono T, Nakao M, et al. 1992. DNA Seq. 3:203-12
3. Miyamoto Y, Machida K, Mizunuma M, et al. 2002. J Biol Chem. 277:28810-4
4. Struyf S, Menten P, Lenaerts JP, et al. 2001. Eur J Immunol. 31:2170-8.

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