

## Recombinant Human LD78 beta/CCL3L1 (Human LD78 $\beta$ /CCL3L1)

### Product Information

Product Name	Cat#	Size
	90951ES08	5 $\mu$ g
Recombinant Human LD78 beta/CCL3L1 (Human LD78 $\beta$ /CCL3L1)	90951ES60	100 $\mu$ g
	90951ES76	500 $\mu$ g

### Product Description

The macrophage inflammatory protein-1 alpha (MIP-1 alpha)/CCL3 and-1 beta (MIP-1 beta)/CCL4 are highly homologous CC family chemokines that were originally co-purified from medium conditioned by an LPS-stimulated murine macrophage cell line. Mouse MIP-1 alpha and MIP-1 beta are encoded by their respective single-copy genes. In human, additional non-allelic MIP-1 alpha and MIP-1 beta genes also exist. 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.

### Product Properties

<b>Synonyms</b>	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
<b>Accession</b>	P16619
<b>GeneID</b>	6349
<b>Source</b>	E.coli-derived Human CCL3L1,Ala24-Ala93.
<b>Molecular Weight</b>	Approximately 7.8 kDa.
<b>AA Sequence</b>	APLAADTPTA CCFSYTSRQI PQNFIADYFE TSSQCSKPSV IFLTKRGRQV CADPSEEWVQ KYVSDLELSA
<b>Tag</b>	None
<b>Physical Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Purity</b>	> 97% by SDS-PAGE and HPLC analyses.
<b>Biological Activity</b>	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.
<b>Endotoxin</b>	< 1.0 EU per 1 $\mu$ g of the protein by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered concentrated solution in PBS, pH 7.4. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
<b>Reconstitution</b>	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 $\leq$ -20 $^{\circ}$ C. Further dilutions should be made in appropriate buffered solutions.

## **Shipping and Storage**

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

## **Cautions**

1. Avoid repeated freeze-thaw cycle.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only.