

## L-selectin Protein, Human, Recombinant (HEK293,His)

### General Information

|                       |   |
|-----------------------|---|
| Synonyms:             | LECAM1;TQ1;CD62L;LYAM1;LSEL;LNHR;LAM1;selectin L;PLNHR;LEU8 |
| Protein Construction: | Trp39-Asn332  |
| Species:              | Human   |
| Expression Host:      | HEK293 Cells  |
| Accession:            | P14151-1  |
| Molecular Weight:     | 34.1 kDa (Predicted); 55-70 kDa (Due to glycosylation)      |

### QC Testing

|                      |  |
|----------------------|--|
| Biological Activity: | Activity testing is not tested. It is theoretically active, but we cannot guarantee it.  |
| Purity:              | > 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC  |
| Endotoxin:           | < 1.0 EU/μg of the protein as determined by the LAL method.  |
| Formulation:         | Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

L-selectin (CD62L) is a type-I transmembrane glycoprotein and cell adhesion molecule that is expressed on most circulating leukocytes. Since its identification in 1983, L-selectin has been extensively characterized as a tethering/rolling receptor. There is now mounting evidence in the literature to suggest that L-selectin plays a role in regulating monocyte protrusion during transendothelial migration (TEM).

Reference

Smalley DM, et al. (2005) L-selectin: mechanisms and physiological significance of ectodomain cleavage. *J Cell Mol Med.* 9(2): 255-66.

Grailer JJ, et al. (2009) L-selectin: role in regulating homeostasis and cutaneous inflammation. *J Dermatol Sci.* 56(3): 141-7.

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