# Product Data Sheet

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| Product Name: | LYVE1 Mouse Sf9 |
| Cat. No.: | GP22542 |
| Batch No.: | 1 |

## Product Data

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| Purity | >98% | Source | Insect Cells. |
| Phycical Appearance | solid | Shipping Condition | Shipped at Room temp. |
| Synonyms | Lymphatic vessel endothelial hyaluronic acid receptor 1 precursor; LYVE-1; Cell surface retention sequence-binding protein 1; CRSBP-1; Hyaluronic acid receptor; Extracellular link domain-containing protein. | | |
| Solubility | It is recommended to reconstitute the lyophilized LYVE1 in sterile water not less than 100µg/ml, which can then be further diluted to other aqueous solutions. | | |
| Formulation | LYVE1 was lyophilized from a concentrated (1mg/ml) sterile solution containing no additives. | | |

## Introduction

LYVE-1 has been identified as a major receptor for HA (extracellular matrix glycosaminoglycan hyaluronan) on the lymph vessel wall. The deduced amino acid sequence of LYVE-1 predicts a 322-residue type I integral membrane polypeptide 41% similar to the CD44 HA receptor with a 212-residue extracellular domain containing a single Link module the prototypic HA binding domain of the Link protein superfamily. Like CD44, the LYVE-1 molecule binds both soluble and immobilized HA. However, unlike CD44, the LYVE-1 molecule colocalizes with HA on the luminal face of the lymph vessel wall and is completely absent from blood vessels. Hence, LYVE-1 is the first lymph-specific HA receptor to be characterized and is a uniquely powerful marker for lymph vessels themselves.

## Stability

Lyophilized sLYVE-1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution sLYVE-1 should be stored at 4°C between 2-7 days and for future use below -18°C .For long term storage it is recommended to add


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a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

## Background

Soluble LYVE1 Mouse Recombinant fused to a C-terminal His-tag (6xHis) produced in baculovirus is a monomeric, glycosylated, polypeptide containing 228 amino acids (Met-1 to Gly 228) and having a molecular mass of 25 kDa but as a result of glycosilation the Mw is 40 kDa. The LYVE-1 is purified by proprietary chromatographic techniques.


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