

## LMAN2L Protein, Human, Recombinant (His)

### General Information

Synonyms:	VIPL;lectin, mannose-binding 2-like
Protein Construction:	A DNA sequence encoding the human LMAN2L (Q9H0V9-1) (Met1-Ala304) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Gly 45
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9H0V9-1
Molecular Weight:	31.4 kDa (predicted); 32 kDa (reducing conditions)

### QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

### Preparation and Storage

**Reconstitution:**  
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

**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

LMAN2L (Lectin, Mannose Binding 2 Like) is a Protein Coding gene. This gene encodes a protein belonging to the L-type lectin group of type 1 membrane proteins, which function in the mammalian early secretory pathway. LMAN2L contains 1 L-type lectin-like domain and is expressed in numerous tissues. It is highly expressed in skeletal muscle and kidney, and its intermediate expression levels in heart, liver, and placenta, low levels in brain, thymus, spleen, small intestine, and lung. LMAN2L may be involved in the regulation of export from the

endoplasmic reticulum of a subset of glycoproteins. It also may function as a regulator of ERGIC-53. LMAN2L gene may be modulated by acetylation; phosphorylation, as detailed at PhosphoSite. Alternative splicing produces 2 isoforms of the human protein. LMAN2L localize in various compartments.

### Reference

- Hartley JL, et al. (2001) DNA cloning using in vitro site-specific recombination. *Genome Res.* 10 (11):1788-95.
- Vorum H, et al. (2000) Calumenin interacts with serum amyloid P component. *FEBS Lett.* 465 (2-3):129-34.
- Vorum H, et al. (1999) n calumenin localizes to the secretory pathway and is secreted to the medium. *Exp Cell Res.* 248(2):473-81.

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