

## Active Native Phaseolus vulgaris lectin L Protein

Cat. No. PHAL-01P Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	<p>Phaseolus vulgaris lectin L (PHA-L) is isolated from red kidney beans and purified by affinity chromatography. It is a tetrameric protein with a molecular weight of 126 kDa, each subunit of about 31 kDa. The lectin recognizes and binds specifically to terminal galactose, N-acetylglucosamine and mannose residues of complex glycans on mammalian glycoproteins</p> <p>Microorganisms: &lt; 100 CFU/g</p> <p>Sugar specificity: D-GalNAc</p>
<b>Species</b>	Phaseolus vulgaris
<b>Source</b>	Red Kidney Bean
<b>Description</b>	PHA-L is also known as leucoagglutinin and has high mitogenic and leucoagglutinating activity, but low erythroagglutinating activity. The lectin recognizes terminal galactose residues of complex glycans on mammalian glycoproteins such as thyroglobulin.
<b>Form</b>	White lyophilized powder or flocculate
<b>Bio-activity</b>	<p>Agglutinates leucocytes and has mitogenic activity</p> <p>High mitogenic and leucoagglutinating activity</p> <p>Very low erythroagglutinating activity</p>
<b>Molecular Mass</b>	126 kDa
<b>Residual Host Cell</b>	> 85%

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**Protein Content****Applications**

Leucocyte agglutination studies  
Mammalian glycoprotein studies  
Model system of how proteins recognize carbohydrates

**Usage**

The lectin may be reconstituted with 2 mL of deionized water before use, spin the vial gently until full dissolution. The solution may be reconstituted in this buffer to desired working concentration. Aggregation is thought to occur in the presence of high concentrations of 2-mercaptoethanol.

**Stability**

> 3 years when stored at -20 centigrade, Avoid repeated freezing and thawing.

**Storage**

The lyophilized powder is stable for more than three years from production date when stored below -20 centigrade. After reconstitution with deionized water, the solution may be stored frozen in working aliquots for up to 12 months.

**Shipping**

The product is shipped at -20 centigrade however for over-the-day transport it may be shipped at ambient temperature.

**GENE INFORMATION****Synonyms**

Phaseolus vulgaris lectin L; PHA-L; PHAL

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**SDS-PAGE**



One visible band at 31 kDa.  
Lane 1 and 8: MW marker  
Lane 2-7: Lot specific PHA-L

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