

Active Native Phaseolus vulgaris lectin L Protein

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

SPECIFICATION

Product Overview	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 Microorganisms: < 100 CFU/g Sugar specificity: D-GalNAc
Species	Phaseolus vulgaris
Source	Red Kidney Bean
Description	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.
Form	White lyophilized powder or flocculate
Bio-activity	Agglutinates leucocytes and has mitogenic activity High mitogenic and leucoagglutinating activity Very low erythroagglutinating activity
Molecular Mass	126 kDa
Residual Host Cell	> 85%

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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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