

Active Native Phaseolus vulgaris (red kidney bean) Lectin

Cat. No. Lectin-8983P **Lot. No.** (See product label)

SPECIFICATION

Product Overview

PHA consists of two molecular species, an erythroagglutinin (PHA-E) which has low mitogenic activity and high erythroagglutinin activity, and leucoagglutinin (PHA-L) which has high mitogenic and leucoagglutinating activity, but very low erythroagglutinating activity.

PHA-E is not blood group specific, but agglutination can be inhibited by certain oligosaccharides. PHA-P is the protein form of PHA prior to separation and purification of erythroagglutinin and leucoagglutinin. PHA-M is the mucoprotein form. Conjugates are prepared from the corresponding purified lectins.

EC Number: 232-718-7
 NACRES: NA.32
 impurities: salt, free

Species Phaseolus vulgaris

Source Red kidney bean

ProteinLength 232-718 a.a.

Description

PHAs are carbohydrate-binding proteins. There are several types of PHAs identified, predominantly in leguminous plants.

Phytohaemagglutinin (PHA, or phytohemagglutinin) is a lectin found in plants (esp. in legumes). It is obtained from Phaseolus vulgaris (red kidney beans) and acts as a mitogen in human leucocyte culture.

 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

Form	lyophilized powder
Bio-activity	<p>≤62.5 µg per mL agglutination activity</p> <p>≤10 µg/mL mitogenic activity</p>
Applications	<p>It has also been used as an antigen to measure in vivo T-cell-mediated immune responsiveness.</p> <p>Lectin from Phaseolus vulgaris (red kidney bean) has been used in phytohemagglutinin (PHA) assay and during assessment of cellular and humoral immunity.</p> <p>Agglutination activity is expressed in mg/mL and is determined from serial dilutions of a 1 mg/mL solution. This activity is the lowest concentration to agglutinate a suspension of 2% human erythrocytes in phosphate buffered saline, pH 6.8, after 1 hr incubation at 25 centigrade. Mitogenic activity is determined by BrdU incorporation in HeLa cell cultures.</p>
Storage	2-8 centigrade
GENE INFORMATION	
Official Symbol	PHA
Synonyms	Phytohemagglutinin PHA-P; Lectin; PHA; Phaseolus vulgaris agglutinin

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