

## Active Native Peanut Lectin Protein, Cy5 labeled

Cat. No. Lectin-1815P Lot. No. (See product label)

### SPECIFICATION

**Product Overview** This product is the Cy5 labeled Peanut Agglutinin (PNA) Lectin and has sugar specificity against Galactose. The excitation maximum is at 650 nm and the emission maximum is at 670 nm.

**Species** Peanut

**Source** Peanut

**Description** Peanut agglutinin binds preferentially to the T-antigen, a galactosyl ( $\beta$ -1,3) N-acetylgalactosamine structure present in many glycoconjugates such as M and N blood groups, gangliosides, and many other soluble and membrane-associated glycoproteins and glycolipids. With certain exceptions, the receptor sequence for PNA is normally sialylated which prevents the lectin from binding to its receptor oligosaccharide (see Jacalin). Even sialic acid which is not bound directly to the receptor sugars may inhibit binding. The presence of calcium ions in diluents can enhance the binding of PNA to receptors, possibly by neutralizing the negative charges on sialic acid residues adjacent to the receptor sequence.

**Form** 10 mM HEPES, 0.15 M NaCl, pH 7.5, 0.08% sodium azide, 0.1 mM Ca<sup>2+</sup>, and a protein stabilizer.

**Bio-activity** Inhibiting/Eluting Sugar: 200 mM galactose

**Molecular Mass** 110 kDa

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

<b>Applications</b>	Immunofluorescence, Glycobiology
<b>Usage</b>	The recommended concentration range for use is 5-20 $\mu$ g/ml.
<b>Storage</b>	Refrigerate in the dark. If a precipitate forms upon long-term storage at 4 centigrade, warm to 37 centigrade and centrifuge before use.

## GENE INFORMATION

**Synonyms** Lectin; PNA

**UniProt ID** [P02872](#)

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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