

## Active Native Peanut Lectin Protein, Biotinylated

**Cat. No.** Lectin-1813P    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	This product is the Biotinylated Peanut Agglutinin (PNA) Lectin and has sugar specificity against Galactose.
<b>Species</b>	Peanut
<b>Source</b>	Peanut
<b>Description</b>	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.
<b>Form</b>	10 mM HEPES, pH 7.5, 0.15 M NaCl, 0.08% sodium azide, 0.1 mM Ca <sup>2+</sup> , 0.01 mM Mn <sup>2+</sup>
<b>Bio-activity</b>	Inhibiting/Eluting Sugar: 200 mM galactose
<b>Molecular Mass</b>	110 kDa
<b>Applications</b>	Immunohistochemistry / Immunocytochemistry, Immunofluorescence, Blotting

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Applications, Elispot, ELISAs, Glycobiology

**Usage**

For most applications we recommend a freshly prepared working solution of 5-20 g/ml. Use of buffers containing 0.1 mM Ca<sup>2+</sup> and 0.01 mM Mn<sup>2+</sup> is recommended.

**Storage**

Refrigerate; for long term storage, aliquots may be stored frozen.

**Concentration**

5 mg/ml

**GENE INFORMATION**

**Synonyms**

Lectin; PNA

**UniProt ID**

[P02872](#)

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