

Active Native Peanut Lectin Protein, Agarose Bound

Cat. No. Lectin-1812P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This product is the Agarose Bound Peanut Agglutinin (PNA) Lectin and has sugar specificity against Galactose.
Species	Peanut
Source	Peanut
Description	Peanut agglutinin binds preferentially to the T-antigen, a galactosyl (β -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, pH 7.5, 0.15 M NaCl, 0.1 mM Ca^{2+} , 20 mM galactose, 0.08% sodium azide
Bio-activity	Inhibiting/Eluting Sugar: 200 mM galactose or Glycoprotein Eluting Solution
Molecular Mass	110 kDa
Applications	Glycobiology, Affinity Chromatography

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Usage

- 1, Wash gel thoroughly with buffer before use to remove sugar added to stabilize the lectin.
- 2, Use of buffers containing 0.1 mM Ca²⁺ and 0.01 mM Mn²⁺ is recommended.
- 3, Recommended product for eluting glycoconjugates bound to this agarose-lectin: Glycoprotein Eluting Solution. Alternatively, 200 mM galactose in 10 mM HEPES-buffered saline, pH 7.5 can be used. For those glycoconjugates having very high affinity for PNA, it may be necessary to lower the pH of the eluting sugar solution to pH 3.0 with acetic acid.

Storage

Refrigerate. DO NOT FREEZE.

Concentration

5 mg/ml of settled gel

GENE INFORMATION**Synonyms**

Lectin; PNA

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