

Active Native Peanut Lectin Protein, Biotinylated

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

SPECIFICATION

Product Overview	This product is the Biotinylated 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, 0.08% sodium azide, 0.1 mM Ca^{2+} , 0.01 mM Mn^{2+}
Bio-activity	Inhibiting/Eluting Sugar: 200 mM galactose
Molecular Mass	110 kDa
Applications	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 µg/ml. Use of buffers containing 0.1 mM Ca²⁺ and 0.01 mM Mn²⁺ 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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