

Active Native Peanut Lectin Protein

Cat. No. Lectin-1818P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This product is the Unconjugated 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	In addition to the lyophilized powder, it contains approximately 26% salts.
Bio-activity	Inhibiting/Eluting Sugar: 200 mM galactose
Molecular Mass	110 kDa
Applications	Immunohistochemistry / Immunocytochemistry, Immunofluorescence, Blotting Applications, Glycobiology

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Storage	Refrigerate in the dark.
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Reconstitution	Although many buffers can be employed for reconstituting and diluting this lectin, 10 mM HEPES buffered saline, pH 8.5, 0.1 mM Ca ²⁺ is recommended. For preserving solutions stored at 4 centigrade, 0.08% sodium azide can be used.
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GENE INFORMATION

Synonyms	Lectin; PNA
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UniProt ID	P02872
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