Peanut Lectin

Cat. No. GTX01506

Applications	Conjugation, Purification
Species	Arachis hypogaea

Package
1 mg

PRODUCT

Summary

Peanut lectin (PNA) is an identical tetrameric carbohydrate free protein with MW of 110 kDa. Thomsen-Friedenreich antigen, T-antigen (Galβ1, 3GalNAc) is present on blood group M &N glycoproteins (after removal of sialic acid with neuraminidase), glyconjugates (Mucin type), gangliosides and many glycolipids. T antigen is rarely expressed on normal coloncytes whereas cells of malignant, premalignant cells express this antigen. Peanut lectin has widely been used to detect T antigen in malignant and premalignant cells.

Applications

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
Conjugation	Assay dependent
Purification	Assay dependent

Note : Azide should be removed.
Conjugation to Sepharose 4B (solid phase columns) to purify mucin type glycoproteins. Inhibiting/Eluting sugars : 200 mM Galactose

Not tested in other applications.

Product Note

Carbohydrate-Binding Specificity of Peanut Lectin : Galβ1, 3 GalNAc>>GalNAc>Gal

Properties

Form	Liquid
Buffer	10mM Bicarbonate, 150mM NaCl, 0.1mM $CaCl_2$. Dilute in 0.1mM $CaCl_2$ buffer.
Preservative	0.05% Sodium azide
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. Store at 4°C.
Concentration	5 mg/ml (Please refer to the vial label for the specific concentration.)
Region/Sequence	Native Protein
Expression System	Native Protein
Purification	Purified from Peanut
Conjugation	Unconjugated

For full product information, images and publications, please visit our website.

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