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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Note	For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption. Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

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