Native Peanut Arachis hypogaea Lectin (PNA)

Cat. No. PNA-586P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Peanut Arachis hypogaea Lectin (PNA) - Pure Blood Group Specificity: T antigen (M, N) Preferred Sugar Specificity: Galβ3GalNAc Inhibiting or Eluting Sugar: Galactose Divalent Ions: Ca++, Mg++ Mitogenic Activity: No Hazardous Shipping: Non-hazardous
Species	Peanut
Source	Peanut
Description	Arachis hypogaea agglutinin (PNA) is purified by affinity chromatography and is consisting of four subunits of approximately 27,000 each. This lectin has an isoelectric point between pH 5. 5 and pH 6. 5. It has a carbohydrate specificity for Galβ3GalNAc with an eluting sugar of galactose. Galactose and lactose are poor inhibitors while disaccharide Gal β(1->3)GalNAc and desialylated human erythrocyte N-substance (T-antigen which is present in many M and N blood groups) are potent inhibitors of PNA. Although extracts of Arachis hypogaea do not agglutinate untreated or trypsin-treated human erythrocytes, PNA has been known to agglutinate neuraminidase-treated human red blood cells. PNA may be used for clinical determination of T-polyagglutinability of erythrocytes and probing cell membranes of normal and malignant cells. This lectin can be of use in characterization of tumor-specific

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	antigens on the surface of malignant cells. It can be employed in the fractionation of stem cells in mice for use in bone marrow transplantation across histocompatibility barriers.
Form	Lyophilized
Molecular Mass	110 kDa
Purity	Affinity purified
Applications	Cancer biomarker, Histochemistry and IHC, Human erythrocyte/lymphocyte studies
Storage	At -20 centigrade.

GENE INFORMATION

Official Symbol	PNA
Synonyms	Arachis hypogaea Lectin; PNA

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