ImmunoBioScience Corp. (IBSC) *DATA SHEET*

PNA (*Arachis hypogaea* (peanuts)Unconjugated

**Catalog number:**  LE-6883-10

**Description:** 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. Peanut lectin contains one atom of Ca++ and Mg++ per unit.

**Unit**: 1 ml Concentration**:** 5 mg/ml

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**Intended Use**: Conjugation to Sepharose 4B (solid phase columns) to purify mucin type glycoproteins. For conjugation azide should be removed. Dilute in buffer containing 0.1 mM calcium chloride. The optimum dilution should be determined by the individual lab.

**Storage: Storage**: 2-8°C

**Buffer:** 10 bicarbonate, 150 mM NaCl, pH 8.2, 0.1 mM Calcium chloride and 0.05% sodium azide

**Inhibiting/Eluting sugars:** 200 mM Galactose

**Carbohydrate-Binding Specificity of PNA:** Galβ1, 3 GalNAc>>>>>GalNAc>Gal

**References:**

1. Bird, G Vox sang. 9: 748-759, 1964
2. Lotan, R etal. J Biol. Chem. 250: 8518-8523, 1975
3. Itzkowitz, SH etal. Cancer Research 49: 197-204, 1989
4. Yuan, M etal. Cancer research 46: 4841-4847, 1986

**Limitation and warranty:** Our warranty is limited to the actual price paid for the product. We are not liable for any property damage, personnel injury, time, effort or economic loss due to our product.

**MSDS:** This product contains 0.05 % sodium azide as a preservative, appropriate care should be taken in handling. National Institute of Occupational Safety and Health has warning that sodium azide can react with lead, copper, brass or solder in the plumbing system and forms hydrazoic acid in acidic condition. Discard with copious amount of water. Avoid skin and eye contact with all laboratory products. Use appropriate lab. gear, lab coat , gloves and safety glasses. Do not ingest any laboratory products. This product is not approved for administration in human or animals.

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