

Native Jackbean Concanavalin A Lectin (Con A), FITC-Conjugated

Cat. No. Con A-300J **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Jackbean Concanavalin A Lectin (Con A) - FITC (Fluorescein) Blood Group Specificity: Non-specific Preferred Sugar Specificity: α-Mannose, α-Glucose Inhibiting or Eluting Sugar: α-Methylmannoside + α-Methylglucoside Divalent Ions: Ca⁺⁺, Mn⁺⁺ Excitation: 495 nm Emission: 515 nm Mitogenic Activity: Yes Hazardous Shipping: Non-hazardous Fluorescence: Green
Species	Jack Bean
Source	Jackbean
Description	Affinity purified concanavalin A (Con A) is composed of two identical subunits of 237 amino acid residues (MW: 26,000 without any cystine residues). Both ions are required for binding with optimum activity at a pH 7.0. Con A does not have a blood group specificity. It exhibits mitogenic activity with lymphocytes and cancer cells. While lymphocytes and cancer aggregate by Con A; normal white cells do not. Normal cells react to Con A after proteolytic treatment which suggests that trypsinization causes clustering of the reactive glycan residues on the membrane. Con A interacts with cell types include locust muscle fibers, adipocytes, and rat liver

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plasma membrane components. This lectin induces endoreduplication in mammalian cells and it reacts with *E. coli*, *Dictyostelium discoideum* and *Bacillus* lipopolysaccharides. Immobilized Con A has been used in affinity chromatography purifications of a wide variety of glycoproteins and cellular structures. Concanavalin A (Jackbean) Lectin (Con A) is labeled with fluorescein isothiocyanate (FITC) and has an appropriate number of fluorochromes bound to provide the optimum staining characteristics for this lectin. FITC conjugates have been used in a variety of immunohistochemical and flow cytometry applications.

Form	Liquid
Purity	High Purity Grade
Stability	Shelf Life: 1 year
Storage	At 2-8 centigrade.
Concentration	5 mg/mL

GENE INFORMATION

Official Symbol	Con A
Synonyms	Concanavalin A Lectin; Con A

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