

Native Jackbean Concanavalin A Lectin (Con A), Texas Red-Conjugated

Cat. No. Con A-534J **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Native Jackbean Concanavalin A Lectin (Con A) - Texas Red

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: 595 nm

Emission: 615 nm

Mitogenic Activity: Yes

Hazardous Shipping: Non-hazardous

Fluorescence: Red

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). 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 plasma membrane components. This lectin induces endoreduplication in mammalian

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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. Texas Red is a red-fluorescent dye and when bound to Concanavalin A (Jackbean) Lectin (Con A) can show the binding pattern of this lectin in cellular imaging applications. There is very little overlap between the emission spectra of Texas Red and FITC making this combination ideal for dual-labeling experiments. Rhodamine dyes, such as Texas Red, are more photostable and less sensitive to pH change when compared to other dyes such as fluorescein.

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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