

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

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

SPECIFICATION

Product Overview	<p>Native Jackbean Concanavalin A Lectin (Con A) - Texas Red</p> <p>Blood Group Specificity: Non-specific</p> <p>Preferred Sugar Specificity: α-Mannose, α-Glucose</p> <p>Inhibiting or Eluting Sugar: α-Methylmannoside + α-Methylglucoside</p> <p>Divalent Ions: Ca⁺⁺, Mn⁺⁺</p> <p>Excitation: 595 nm</p> <p>Emission: 615 nm</p> <p>Mitogenic Activity: Yes</p> <p>Hazardous Shipping: Non-hazardous</p> <p>Fluorescence: Red</p>
Species	Jack Bean
Source	Jackbean
Description	<p>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</p>

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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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