

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

Cat. No. Con A-485J **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Native Jackbean Concanavalin A Lectin (Con A) - TRITC (Rhodamine)
 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: 545-555 nm
 Emission: 570-580 nm
 Mitogenic Activity: Yes
 Hazardous Shipping: Non-hazardous
 Fluorescence: Orange

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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 tetramethylrhodamine isothiocyanate (TRITC) and has an appropriate number of fluorochromes bound to provide the optimum staining characteristics for this lectin. TRITC is a bright orange or red-fluorescent dye with excitation ideally suited to the 532-nm laser line. TRITC labeled Con A can be used for cellular imaging 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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