

## Native Jackbean Concanavalin A Lectin (Con A)

Cat. No. Con A-603J Lot. No. (See product label)

### SPECIFICATION

**Product Overview**

Native Jackbean Concanavalin A Lectin (Con A) - Pure  
Blood Group Specificity: Non-specific  
Preferred Sugar Specificity:  $\alpha$ -Mannose,  $\alpha$ -Glucose  
Inhibiting or Eluting Sugar:  $\alpha$ -Methylmannoside +  $\alpha$ -Methylglucoside  
Divalent Ions:  $\text{Ca}^{++}$ ,  $\text{Mn}^{++}$   
Mitogenic Activity: Yes  
Hazardous Shipping: Non-hazardous

**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 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.

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<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	104 kDa
<b>Purity</b>	Affinity purified
<b>Applications</b>	Cancer biomarker, Hormone receptor studies, Insulin-like activity, Characterization of normal
<b>Storage</b>	At -20 centigrade.
<b>GENE INFORMATION</b>	
<b>Official Symbol</b>	Con A
<b>Synonyms</b>	Concanavalin A Lectin; Con A
<b>WB</b>	

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