

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: α -Mannose, α -Glucose
 Inhibiting or Eluting Sugar: α -Methylmannoside + α -Methylglucoside
 Divalent Ions: Ca^{++} , 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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Form	Lyophilized
Molecular Mass	104 kDa
Purity	Affinity purified
Applications	Cancer biomarker, Hormone receptor studies, Insulin-like activity, Characterization of normal
Storage	At -20 centigrade.
GENE INFORMATION	
Official Symbol	Con A
Synonyms	Concanavalin A Lectin; Con A
WB	

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