



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# ConA Lectin (FITC)

**Cat No. GTX01505**

**Application** ICC/IF

**Package**

1 mg

## PRODUCT

### Product Description

Concanavalin A is a lectin protein (MW 104kDa), homotetramer 26 kDa; originally extracted from the jack-bean, *Canavalia ensiformis*. It binds specifically to certain structures found in various sugars  $\alpha$ -mannosyl and  $\alpha$ -glucosyl residues in glycoproteins. It was the first lectin to be available on a commercial basis and is widely used in biology and biochemistry to characterize glycoproteins and other sugar-containing entities. It is also used to purify macromolecules in lectin affinity chromatography. Concanavalin A interacts with diverse receptors containing mannose carbohydrates (serum and membrane glycoproteins). ConA agglutinates strongly erythrocytes without being blood group specific. Normal cells are agglutinated after trypsinisation. ConA is not also a lymphocyte mitogen and reacts with many bacteria, like *E. coli*, *Dictyostelium discoideum* and *B. subtilis*, but is also widely believed to be involved in the interaction between alpha-mannosyl oligosaccharides on the surface of the HIV virus and the human T cell lymphocyte.

## APPLICATION

**Specificity/Sensitivity** alpha-linked mannose and glucose

## PROPERTIES

**Form** Liquid

**Buffer** 10 mM bicarbonate, 150 mM NaCl, 0.1 mM Calcium chloride, 0.01mM manganese chloride (pH 8.0) and 0.05% sodium azide. (Con A has an Isoelectric point of about pH 4.5-5.5 and requires calcium or manganese ions at each of its four saccharide binding sites; These ions should be used in buffer. DO NOT USE phosphate buffer for dilution of this lectin as it will decrease the activity of lectin).

**Storage** Store as concentrated solution. Centrifuge briefly prior to opening vial. Store at 4° C.

**Concentration** 5 mg/ml (Please refer to the vial label for the specific concentration.)

**Conjugation** Fluorescein isothiocyanate (FITC)  
Absorption : 490 nm ; Emission : 520 nm. Ratio : 1.0-1.4 molecules FITC (isomer 1) per Lectin molecule.

**Note** For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.



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