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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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ConA Lectin (Biotin)

Cat No. GTX01504

Application WB, ELISA, IHC**Package**

1 mg

PRODUCT

Summary

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 α -mannosyl and α -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 cell re-agglutinates after trypsinisation. ConA is not also a lymphocyte mitogen and reacts with many bacteria, like *E. coli*, *Dictyostelium discoideum* et *B. subtilis*, but 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, 0.01 mM 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** Biotin**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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