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# CONCANAVALIN A (CON A), FLUORESCEIN

**SKU:** FL-1001-25


## DESCRIPTION

Con A recognizes α-linked mannose present as part of a “core oligosaccharide” in many serum and membrane glycoproteins.

Fluorescein labeled Con A has an appropriate number of fluorochromes bound to provide the optimum staining characteristics for this lectin. This conjugate is supplied essentially free of unconjugated fluorochromes.

- Excitation maximum: 495 nm
- Emission maximum: 515 nm
- Color: Green

## SPECIFICATIONS

| | |
|---|---|
| **Molecular Weight** | 104 |
| **Color of Fluorescence** | Green |
| **Extinction Coefficient** | 1.2 |

**For research use only. Not intended for therapeutic or diagnostic use in animals or humans.**

| | |
|---|---|
| **Formulation** | 10 mM HEPES, 0.15 M NaCl, pH 7.5, 0.08% sodium azide, 0.1 mM CaCl2, 0.01 mM MnCl2. |
| **Inhibiting or Eluting Sugar** | Mixture of a-methyl-mannoside & a-methyl-glucoside |
| **Maximum Emission** | 514-521 nm |
| **Maximum Excitation** | 495-500 nm |
| **Unit Size** | 25 mg |
| **Storage Instructions** | 2-8 °C |
| **Sugar Specificity** | Terminal α-mannose (Man3-Man9), and biantennary N-glycans |
| **Usage Summary** | The recommended concentration range for use is 5-20 µg/ml. |
| **Applications** | Immunofluorescence, Glycobiology |
| **Concentration** | 5 mg active conjugate/ml |
| **Conjugate** | Fluorescein |

# TECHNICAL INFORMATION

At neutral and alkaline pH, Con A exists as a tetramer of four identical subunits; below pH 5.6, Con A dissociates into active dimers of 52 kDa. Acetylation, succinylation, or other derivatizations can also produce stable forms with dimeric structures. (See succinylated Con A). Nicks in the sequence are often present in the purest preparations due to hydrolytic damage within the seeds.

Con A requires calcium or manganese ions at each of its four saccharide binding sites. Although these divalent metal ions are bound tightly to the polypeptide structure, buffers which can bind calcium (such as phosphate) generally should be avoided in diluting Con A, since a gradual loss in activity may occur.

Accompanying each fluorescent lectin is an analysis data sheet summarizing the results of our quality control tests and providing pertinent information on the product. All of these reagents are supplied as solutions preserved with sodium azide.

Inhibiting/Eluting Sugar: mixture of 200 mM α-methylmannoside/200 mM α-methylglucoside

# CITATIONS

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# DOCUMENTS

- Lectins in Histochemistry, ELISA, and Western Blot Applications
- Safety Data Sheet
- Download CoA
- Datasheet

# GALLERY IMAGES


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