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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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