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CONCANAVALIN A (CON A), RHODAMINE

SKU: RL-1002-25



DESCRIPTION

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

Rhodamine 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. The excitation maximum is at 550 nm and the emission maximum is at 575 nm.

SPECIFICATIONS

Molecular Weight	104
Color of Fluorescence	Red
Extinction Coefficient	1.2

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Formulation	10 mM HEPES, 0.15 M NaCl, pH 7.5 0.08% sodium azide, 0.1 mM CaCl2, 0.01 mM MnCl2, 5 mM mannose
Inhibiting or Eluting Sugar	Mixture of a-methyl-mannoside & a-methyl-glucoside
Maximum Emission	570-580 nm
Maximum Excitation	545-555 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	Rhodamine

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

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CITATIONS

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DOCUMENTS

- Safety Data Sheet
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GALLERY IMAGES



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