



CONCANAVALIN A (CON A), UNCONJUGATED

SKU: L-1000-500



DESCRIPTION

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

SPECIFICATIONS

Molecular Weight	104
Extinction Coefficient	1.2
Inhibiting or Eluting Sugar	Mixture of α -methyl-mannoside & α -methyl-glucoside
Unit Size	500 mg
Sugar Specificity	Terminal α -mannose (Man3-Man9), and biantennary N-glycans

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**Usage Summary**

Although many buffers can be employed for reconstituting and diluting this lectin, 10 mM HEPES buffered saline, pH 8.5, 0.1 mM CaCl₂ is recommended. For preserving solutions stored at 4 °C, 0.08% sodium azide can be used.

Applications

Immunohistochemistry / Immunocytochemistry,
Immunofluorescence, Blotting Applications, Glycobiology,
Mitogenic Stimulation

Conjugate

Unconjugated

TECHNICAL INFORMATION

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

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](#)

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- [Datasheet](#)

GALLERY IMAGES



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