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CONCANAVALIN A (CON A), BIOTINYLATED

SKU: B-1005-5



DESCRIPTION

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

Biotinylated Concanavalin A has an appropriate number of biotins bound to provide the optimum staining characteristics for this lectin. This conjugate is supplied essentially free of unconjugated biotins and is preserved with sodium azide.

SPECIFICATIONS

Molecular Weight	104
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, 0.01 mM MnCl2, 0.1 mM CaCl2, 0.08% sodium azide, 10 mM alpha methylmannoside.
Inhibiting or Eluting Sugar	Mixture of a-methyl-mannoside & a-methyl-glucoside
Unit Size	5 mg
Storage Instructions	2-8 °C; Store frozen for long term storage
Sugar Specificity	Terminal α-mannose (Man3-Man9), and biantennary N-glycans
Usage Summary	For most applications we recommend a freshly prepared working solution of 5-20 µg/ml in the below buffer.
Applications	Immunohistochemistry / Immunocytochemistry, Immunofluorescence, Blotting Applications, Elispot, ELISAs, Glycobiology
Concentration	5 mg/ml
Conjugate	Biotinylated

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.

This biotinylated lectin is an ideal intermediate for examining glycoconjugates using the Biotin-Avidin/Streptavidin System. First the biotinylated lectin is added, followed by the VECTASTAIN® ABC Reagent, Avidin D conjugate, or streptavidin derivative.

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

GALLERY IMAGES



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