

Active Native *Canavalia ensiformis* Concanavalin A Protein, Rhodamine labeled

Cat. No. Lectin-1736C Lot. No. (See product label)

SPECIFICATION

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| Product Overview | This product is the <i>Canavalia ensiformis</i> (Jack Bean) seeds Concanavalin A and has sugar specificity against Mannose and Glucose. The excitation maximum is at 550 nm and the emission maximum is at 575 nm. |
| Species | <i>Canavalia ensiformis</i> (Jack Bean) seeds |
| Source | <i>Canavalia ensiformis</i> (Jack Bean) seeds |
| Description | 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. |
| Form | 10 mM HEPES, 0.15 M NaCl, pH 7.5, 0.1 mM Ca ²⁺ 0.08% sodium azide, 0.01 mM Mn ²⁺ |
| Bio-activity | Inhibiting/Eluting Sugar: mixture of 200 mM α -methylmannoside/200 mM α -methylglucoside |
| Molecular Mass | 104 kDa |

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| Applications | Immunofluorescence, Glycobiology |
| Usage | The recommended concentration range for use is 5-20 g/ml. |
| Storage | Refrigerate in the dark. If precipitate forms upon long term storage at 4 centigrade, warm to 37 centigrade. and centrifuge before use. This does not have a significant adverse effect on the product. |
| Concentration | 5.0 mg/ml active conjugate |
| GENE INFORMATION | |
| Synonyms | Lectin; Con A |
| UniProt ID | P02866 |

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