

Active Native *Canavalia ensiformis* Concanavalin A Protein, Biotinylated

Cat. No. Lectin-1757C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This product is the Biotinylated Concanavalin A (Con A) and has sugar specificity against Galactose and Lactose. The excitation maximum is at 552 nm and the emission maximum is at 565 nm.
Species	<i>Canavalia ensiformis</i>
Source	<i>Canavalia ensiformis</i>
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, and a protein stabilizer.
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 μ g/ml.
Storage	Refrigerate in the dark. If a precipitate forms upon long-term storage at 4 centigrade, warm to 37 centigrade and centrifuge before use.
Concentration	1 mg/ml active conjugate
GENE INFORMATION	
Synonyms	Lectin; Con A
UniProt ID	P02866

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