



>>Entry Name: Concanavalin A

ENTRY UNDER REVIEW

Synonym(s): Con A

CAS Registry Number: 11028-71-0

Molecular Formula: [CaMn]

General Statement: A phytagglutinin or lectin

Biological Source: Isol. from jack beans, *Canavalia ensiformis*

Use/Importance: Binds specifically to α -mannosyl and glucose residues. Used widely in experimental cell biology as a marker for glycoproteins on cell membranes etc. Also has mitogenic and anti-HIV activity

Other Data: Each subunit of Con A contains one $\text{Ca}^{2(+)}$ and one $\text{Mn}^{2(+)}$ ion. MW =27000. Contains 283 amino acid residues

Hazard & Toxicity: LD₅₀ (mus, ivn) 50 mg/kg. Exp. reprod. and teratogenic effects

Aldrich: 86142-1

Sigma: L7647

References:

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Kalghatgi, K. *et al.*, *J. Chromatogr.*, 1990, **499**, 267, (hplc)

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