

Concanavalin A

Cat. No.:	HY-P2149
CAS No.:	11028-71-0
Target:	Antibiotic; Apoptosis
Pathway:	Anti-infection; Apoptosis
Storage:	Sealed storage, away from moisture
	Powder -80°C 2 years
	-20°C 1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

Concanavalin A

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 50 mg/mL (Need ultrasonic)
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BIOLOGICAL ACTIVITY

Description	Concanavalin A is a Ca ²⁺ /Mn ²⁺ -dependent and mannose/glucose-binding plant lectin that can be found in jack bean. Concanavalin A can induce programmed cell death. Concanavalin A can be used to induce acute hepatic injury ^{[1][3]} .								
In Vivo	<p>Concanavalin A (20 mg/kg; i.v.) induces autoimmune hepatitis in mice^[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table> <tr> <td>Animal Model:</td><td>6-8 weeks, 20 g Male Balb/c mice^[3]</td></tr> <tr> <td>Dosage:</td><td>20 mg/kg</td></tr> <tr> <td>Administration:</td><td>I.v.</td></tr> <tr> <td>Result:</td><td>Increased the ALT and AST levels after 8 hours.</td></tr> </table>	Animal Model:	6-8 weeks, 20 g Male Balb/c mice ^[3]	Dosage:	20 mg/kg	Administration:	I.v.	Result:	Increased the ALT and AST levels after 8 hours.
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CUSTOMER VALIDATION

- J Control Release. 2022 Mar 5;S0168-3659(22)00116-X.

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REFERENCES

- [1]. Zhou Y, et al. The Protective Effect of Resveratrol on Concanavalin-A-Induced Acute Hepatic Injury in Mice. Gastroenterol Res Pract. 2015;2015:506390.

[2]. Li W, et, al. Concanavalin A: a potential anti-neoplastic agent targeting apoptosis, autophagy and anti-angiogenesis for cancer therapeutics. Biochem Biophys Res Commun. 2011 Oct 22;414(2):282-6.

[3]. Cantelli A, et, al. Concanavalin A-Rose Bengal bioconjugate for targeted Gram-negative antimicrobial photodynamic therapy. J Photochem Photobiol B. 2020 Mar 13;206:111852.

Caution: Product has not been fully validated for medical applications. For research use only.

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