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- Trockeneiszuschlag
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- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

PRODUCT INFORMATION



Zymosan A

Item No. 21175

CAS Registry No.: 58856-93-2

Supplied as: A powder

Storage: -20°C

Stability: ≥2 years

Special Conditions: Store in desiccating conditions

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Description

Zymosan A is a glucan derived from the cell wall of *S. cerevisiae* that activates toll-like receptor 2 (TLR2) and a C-type lectin, dectin-1, on macrophages, monocytes, and dendritic cells to induce inflammatory signaling.¹⁻⁴ It is commonly used to stimulate a sterile inflammatory response in mouse models of sepsis, shock, and peritonitis.^{5,6} In a mouse model of sepsis/shock, a lethal dose of zymosan A (500 mg/kg) in rats induced inflammation and shock leading to death.⁷ Zymosan A can also induce biosynthesis of eicosanoids.⁸

References

1. Di Carlo, F.J. and Fiore, J.V. On the composition of zymosan. *Science* **127(3301)**, 756-757 (1958).
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3. Pillemer, L., Blum, L., Lepow, I.H., *et al.* The properdin system and immunity. III. The zymosan assay of properdin. *J. Exp. Med.* **103(1)**, 1-13 (1956).
4. Underhill, D.M., Ozinsky, A., Hajjar, A.M., *et al.* The toll-like receptor 2 is recruited to macrophage phagosomes and discriminates between pathogens. *Nature* **401(6755)**, 811-815 (1999).
5. Reynolds, F.D., Dauchy, R., Blask, D.E., *et al.* The pineal gland hormone melatonin improves survival in a rat model of sepsis/shock induced by zymosan A. *Surgery* **134(3)**, 474-479 (2003).
6. Rao, T.S., Currie, J.L., Shaffer, A.F., *et al.* *In vivo* characterization of zymosan-induced mouse peritoneal inflammation. *J. Pharmacol. Exp. Ther.* **269(3)**, 917-925 (1994).
7. Reynolds, F.D., Dauchy, R., Blask, D.E., *et al.* The pineal gland hormone melatonin improves survival in a rat model of sepsis/shock induced by zymosan A. *Surgery* **134(3)**, 474-479 (2003).
8. Humes, J.L., Sadowski, S., Galavage, M., *et al.* Evidence for two sources of arachidonic acid for oxidative metabolism by mouse peritoneal macrophages. *J. Biol. Chem.* **257(4)**, 1591-1594 (1982).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD

ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM

WWW.CAYMANCHEM.COM