



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- 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) 

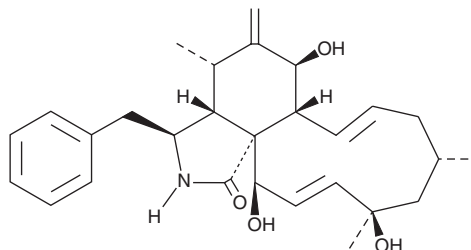
PRODUCT INFORMATION



Cytochalasin J

Item No. 18443

CAS Registry No.: 53760-20-6
Formal Name: 2,3,3a,4,5,6,6a,9,10,11,12,15-dodecahydro-6,12,15-trihydroxy-4,10,12-trimethyl-5-methylene-3-(phenylmethyl)-1H-cycloundec[d]isoindol-1-one
MF: C₂₈H₃₇NO₄
FW: 451.6
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A white lyophilisate



Laboratory Procedures

For long term storage, we suggest that cytochalasin J be stored as supplied at -20°C. It should be stable for at least two years.

Cytochalasin J is supplied as a white lyophilisate. A stock solution may be made by dissolving the cytochalasin J in the solvent of choice. Cytochalasin J is soluble in organic solvents such as ethanol, methanol, DMSO and dimethyl formamide, which should be purged with an inert gas. We do not recommend storing the aqueous solution for more than one day.

Description

The cytochalasins are cell-permeable fungal metabolites that inhibit actin polymerization.¹⁻⁴ This interferes with such diverse processes as cell movement, growth, phagocytosis, degranulation, and secretion.⁵⁻⁸ Cytochalasin J is a deacetylated analog of cytochalasin H that weakly inhibits actin assembly but significantly alters mitotic spindle microtubule organization and kinetochore structure.^{9,10} Like cytochalasin H, cytochalasin J suppresses the production of reactive oxygen species by stimulated human neutrophils.¹¹

References

1. Brenner, S.L. and Korn, E.D. *J. Biol. Chem.* **255**(3), 841-844 (1980).
2. Lin, D.C., Tobin, K.D., Grumet, M., et al. *J. Cell Biol.* **84**, 455-460 (1980).
3. Ostlund, R.E., Jr., Leung, J.T., and Hajek, S.V. *J. Cell Biol.* **85**, 386-391 (1980).
4. Pinder, J.C. and Gratzner, W.B. *S J. Cell Biol.* **96**(3), 768-775 (1983).
5. Flaumenhaft, R., Dilks, J.R., Rozenvayn, N., et al. *Blood* **105**(10), 3879-3887 (2005).
6. Taheri-Talesh, N., Horio, T., Araujo-Bazán, L., et al. *Mol. Biol. Cell* **19**, 1439-1449 (2008).
7. dos Santos, T., Varela, J., Lynch, I., et al. *PLoS One* **6**(9), 1-10 (2011).
8. Nightingale, T.D., White, I.J., Doyle, E.L., et al. *J. Cell Biol.* **194**(4), 613-629 (2011).
9. Walling, E.A., Krafft, G.A., and Ware, B.R. *Arch. Biochem. Biophys.* **264**(1), 321-332 (1988).
10. Wrench, G.A. and Snyder, J.A. *Cell Motil. Cytoskeleton* **36**(2), 112-124 (1997).
11. Chapla, V.M., Zeraik, M.L., Ximenes, V.F., et al. *Molecules* **19**, 6597-6608 (2014).

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.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 10/09/2015

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