



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### 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](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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

## β-D-Glucan

Cat. No.:	HY-139413
CAS No.:	9041-22-9
Target:	Toll-like Receptor (TLR)
Pathway:	Immunology/Inflammation
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

## beta-D-Glucan

### SOLVENT & SOLUBILITY

In Vitro	1M NaOH : 50 mg/mL (ultrasonic and adjust pH to 12 with NaOH)
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### BIOLOGICAL ACTIVITY

Description	β-D-glucan is a natural non-digestible polysaccharide and high biocompatibility that can be selectively recognized by recognition receptors such as Dectin-1 and Toll-like receptors as well as being easily internalized by murine or human macrophages, which is likely to attribute to a target delivery <sup>[1]</sup> . β-d-glucan is an enteric delivery vehicle for probiotics <sup>[2]</sup> .
In Vitro	β-D-glucan dissolved in DMSO but not water inhibits MCF-7 cell proliferation in a concentration-dependent manner as measured by BrdU incorporation with an IC <sub>50</sub> of -164 μg/mL. β-D-glucan dissolved in DMSO inhibits tamoxifen/endocrine-resistant LCC9 and LY2 cell proliferation with IC <sub>50</sub> values of 4.6 and 24.2 μg/mL, respectively <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Su Y, et al. pH-sensitive PEG-coated hyper-branched β-d-glucan derivative as carrier for CpG oligodeoxynucleotide delivery. Carbohydr Polym. 2020;246:116621.
- [2]. Gani A, et al. β-d-glucan as an enteric delivery vehicle for probiotics. Int J Biol Macromol. 2018;106:864-869.
- [3]. Jafaar ZM, et al. β-D-glucan inhibits endocrine-resistant breast cancer cell proliferation and alters gene expression. Int J Oncol. 2014;44(4):1365-1375.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA