

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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PRODUCT INFORMATION



B-Sitosterol-D-glucoside

Item No. 11906

CAS Registry No.: 474-58-8

(3β)-stigmast-5-en-3-yl β-D-Formal Name:

glucopyranoside

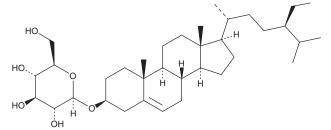
Synonyms: BSSG, Daucosterol, NSC 165962,

Stigma-5-en-3-O-β-glucoside

MF: $C_{35}H_{60}O_{6}$ FW: 576.9 **Purity:** ≥90% Supplied as: A solid Storage: -20°C Stability: ≥4 years

Item Origin: Plant/Dioscorea nipponica Makino

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



Laboratory Procedures

β-Sitosterol-D-glucoside is supplied as a solid. A stock solution may be made by dissolving the β-sitosterol-D-glucoside in the solvent of choice, which should be purged with an inert gas. β-Sitosterol-D-glucoside is soluble in the organic solvent methanol.

Description

β-Sitosterol-D-glucoside is a sterol glycoside that has been found in P. pseudotaimingasa and has diverse biological activities. $^{1-4}$ It is active against *E. coli* and *S. aureus*. 1 β -Sitosterol-D-glucoside inhibits α -amylase and α -glucosidase and scavenges DPPH (Item No. 14805) radicals (IC₅₀s = 46.4, 17, and 155 μ M, respectively).² It inhibits the proliferation of HepG2 and SMMC-7721 hepatocellular carcinoma cells (IC_{50} s = 143.4 and 138.73 µg/ml, respectively) and migration and invasion in the same cells when used at concentrations of 50 or 100 μg/ml. β-Sitosterol-D-glucoside (200 μl of a 200 μg/ml solution) increases survival and decreases the number of kidney colony-forming units (CFUs) in a mouse model of candidiasis induced by C. albicans.⁴

References

- 1. Cho, E.J., Choi, J.Y., Lee, K.H., et al. Isolation of antibacterial compounds from Parasenecio pseudotaimingasa. Hort. Environ. Biotechnol. 53(6), 561-564 (2012).
- 2. Dehghan, H., Salehi, P., and Amiri, M.S. Bioassay-guided purification of α-amylase, α-glucosidase inhibitors and DPPH radical scavengers from roots of Rheum turkestanicum. Ind. Crops Prod. 117, 303-309 (2018).
- 3. Zeng, J., Liu, X., Li, X., et al. Daucosterol inhibits the proliferation, migration, and invasion of hepatocellular carcinoma cells via Wnt/β-catenin signaling. *Molecules* **22(6)**, 862 (2017).
- Lee, J.-H., Lee, J.Y., Park, J.H., et al. Immunoregulatory activity by daucosterol, a β-sitosterol glycoside, induces protective Th1 immune response against disseminated Candidiasis in mice. Vaccine 25(19), 3834-3840 (2007).

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

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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