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- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

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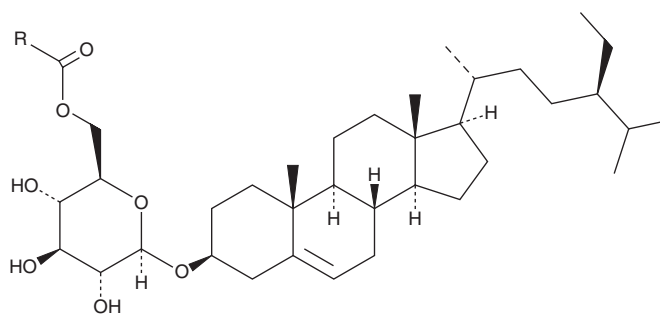
PRODUCT INFORMATION



Esterified Steryl Glucosides

Item No. 27204

Synonyms:	Acylated Steryl Glucosides, Acylated Steryl β -Glucosides
MF:	$C_{51}H_{90}O_7$ (for β -sitosteryl glucoside palmitate)
FW:	815.3
Purity:	$\geq 98\%$
Supplied as:	A solid
Storage:	$-20^{\circ}C$
Stability:	≥ 2 years



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

Laboratory Procedures

Esterified steryl glucosides is supplied as a solid. A stock solution may be made by dissolving the esterified steryl glucosides in the solvent of choice. Esterified steryl glucosides is soluble in chloroform and ethyl ether.

Description

Esterified steryl glucosides are sterol derivatives that have been found in vegetables, vegetable oils, fruits, cereals, legumes, fungi, and algae.¹⁻³ They have also been found as bioactive lipids in pre-germinated brown rice.⁴ The level of esterified steryl glucosides decreases in microsomal membranes from the pericarp of tomatoes stored at a low temperature ($2^{\circ}C$) and increases in mature-green tomatoes when stored at $38^{\circ}C$.⁵ Esterified Steryl Glucosides is a mixture of β -sitosteryl glucoside, β -campesterol glucoside, and β -stigmasteryl glucoside.

References

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2. Lacoste, F., Dejean, F., Griffon, H., *et al.* Quantification of free and esterified steryl glucosides in vegetable oils and biodiesel. *Eur. J. Lipid Sci. Technol.* **111(8)**, 822-828 (2009).
3. Grille, S., Zaslowski, A., Thiele, S., *et al.* The functions of steryl glucosides come to those who wait: Recent advances in plants, fungi, bacteria and animals. *Prog. Lipid Res.* **49(3)**, 262-288 (2010).
4. Usuki, S., Ariga, T., Dasgupta, S., *et al.* Structural analysis of novel bioactive acylated steryl glucosides in pre-germinated brown rice bran. *J. Lipid Res.* **49(10)**, 2188-2196 (2008).
5. Moreau, R.A., Whitaker, B.D., and Hicks, K.B. Phytosterols, phytostanols, and their conjugates in foods: Structural diversity, quantitative analysis, and health-promoting uses. *Prog. Lipid Res.* **41(6)**, 457-500 (2002).

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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