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Produktinformation

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Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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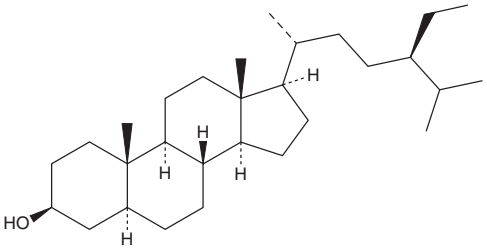
PRODUCT INFORMATION

Sitostanol

Item No. 26094

CAS Registry No.:	83-45-4
Formal Name:	(5α)-stigmastan-3β-ol
Synonyms:	24α-ethyl Cholestanol, NSC 49081, β-Sitostanol, Stigmastanol
MF:	$C_{29}H_{52}O$
FW:	416.7
Purity:	≥95%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥2 years



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

Laboratory Procedures

Sitostanol is supplied as a solid. A stock solution may be made by dissolving the sitostanol in the solvent of choice, which should be purged with an inert gas. Sitostanol is slightly soluble in chloroform.

Description

Sitostanol is a saturated sterol found in a variety of plants, including corn, wheat, and rice.[1] It reduces cholesterol uptake in isolated rat jejunal loops when used at a concentration of 0.3 mM in a micellar solution containing cholesterol.[2] Sitostanol decreases liver cholesterol levels and prevents abdominal aorta atheroma in rabbits when administered in a cholesterol-containing diet at 0.5%.[3]

References

1. Anderson, R.J., Nabsnhauer, F.P., and Shriner, R.L. The distribution of dihydrositosterol in plant fats. *J. Biol. Chem.* **71**, 389-399 (1927).
2. Hassan, A.S. and Rampone, A.J. Effect of β-sitostanol (5 α-stigmastan-3 β-ol) on cholesterol absorption from micellar solutions in jejunal loops in situ. *Steroids* **36(6)**, 731-741 (1980).
3. Ikeda, I., Kawasaki, A., Samezima, K., *et al.* Antihypercholesterolemic activity of *β*-sitostanol in rabbits. *J. Nutr. Sci. Vitaminol. (Tokyo)* **27(3)**, 243-251 (1981).

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