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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) 

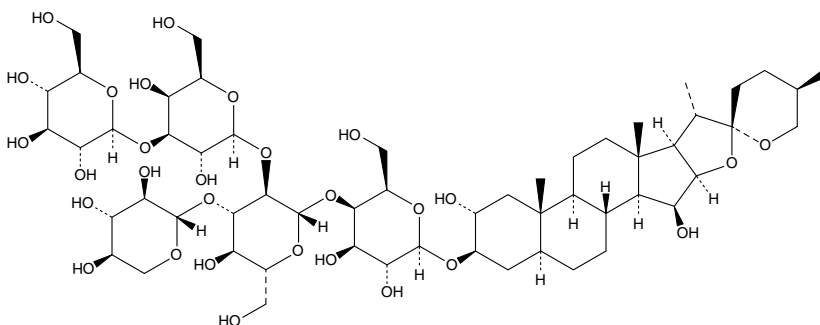
Product Information



Digitonin

Item No. 14952

CAS Registry No.: 11024-24-1
Formal Name: (2 α ,3 β ,5 α ,15 β ,25R)-2,15-dihydroxyspirostan-3-yl O- β -D-glucopyranosyl-(1 $\rightarrow$ 3)-O- β -D-galactopyranosyl-(1 $\rightarrow$ 2)-O-[β -D-xylopyranosyl-(1 $\rightarrow$ 4)- β -D-galactopyranoside]
Synonyms: Digitin, NSC 23471, NSC 237417
MF: C₅₆H₉₂O₂₉
FW: 1,229.3
Stability: $\geq$ 2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

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

Digitonin is supplied as a crystalline solid. A stock solution may be made by dissolving the digitonin in the solvent of choice. Digitonin is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of digitonin in these solvents is approximately 30 mg/ml.

Digitonin is a glycoside obtained from *D. purpurea* that is used as a non-ionic detergent to solubilize membrane-bound proteins, to precipitate cholesterol, and to permeabilize cell membranes.¹⁻³

References

1. Nazari, M., Kurdi, M., and Heerklotz, H. Classifying surfactants with respect to their effect on lipid membrane order. *Biophys. J.* **102**(3), 498-506 (2012).
2. Gardner, J.A., Gainsborough, H., and Murray, R. Studies in the cholesterol content of normal human plasma: An improved macromethod for the estimation of cholesterol by digitonin. *Biochem. J.* **32**(1), 15-18 (1938).
3. Knight, D.E. and Scrutton, M.C. Gaining access to the cytosol: The technique and some applications of electroporemeabilization. *Biochem. J.* **234**(3), 497-506 (1986).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/14952

Cayman Chemical

Mailing address
1180 E. Ellsworth Road
Ann Arbor, MI
48108 USA

Phone
(800) 364-9897
(734) 971-3335

Fax
(734) 971-3640

E-Mail
custserv@caymanchem.com

Web
www.caymanchem.com

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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