



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

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

www.szabo-scandic.com

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

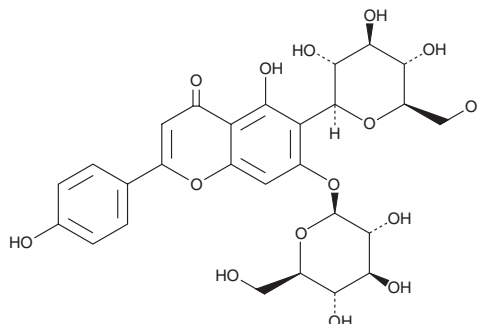
PRODUCT INFORMATION



Saponarin

Item No. 35805

CAS Registry No.: 20310-89-8
Formal Name: 6-β-D-glucopyranosyl-7-(β-D-glucopyranosyloxy)-5-hydroxy-2-(4-hydroxyphenyl)-4H-1-benzopyran-4-one
Synonyms: Isovitexin 7-glucoside, Petrocomoside
MF: C₂₇H₃₀O₁₅
FW: 594.5
Purity: ≥95%
UV/Vis.: λ_{max}: 272, 334 nm
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years
Item Origin: Plant/*Vaccaria segetalis* seed



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

Laboratory Procedures

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

Description

Saponarin is a flavonoid glycoside that has been found in *H. vulgare* and has diverse biological activities.¹⁻⁴ It prevents UV- or Fenton's reagent-induced lipid peroxidation in cell-free assays.¹ Saponarin (50 and 100 μM) increases intracellular calcium concentrations and induces AMPK phosphorylation in HepG2 and TE 671 cells, as well as increases glucose uptake and reduces glucose production in HepG2 cells.² It inhibits the LPS-induced production of TNF-α and IL-1β in RAW 264.7 cells and induces the expression of skin barrier genes encoding hyaluronan synthase-3, aquaporin-3, and the antimicrobial peptide LL-37 in HaCaT cells.³ *In vivo*, saponarin (80 mg/kg, p.o) reduces cocaine-induced production of thiobarbituric acid reactive substances (TBARS), decreases in hepatic levels of catalase, superoxide dismutase (SOD), and glutathione peroxidase (GPX), and hepatotoxicity in rats.⁴

References

1. Kamiyama, M. and Shibamoto, T. Flavonoids with potent antioxidant activity found in young green barley leaves. *J. Agric. Food Chem.* **60(25)**, 6260-6267 (2012).
2. Seo, W.-D., Lee, J.H., Jia, Y., et al. Saponarin activates AMPK in a calcium-dependent manner and suppresses gluconeogenesis and increases glucose uptake via phosphorylation of CRT2 and HDAC5. *Bioorg. Med. Chem. Lett.* **25(22)**, 5237-5242 (2015).
3. Min, S.-Y., Park, C.-H., Yu, H.-W., et al. Anti-inflammatory and anti-allergic effects of saponarin and its impact on signaling pathways of RAW 264.7, RBL-2H3, and HaCaT cells. *Int. J. Mol. Sci.* **22(16)**, 8431 (2021).
4. Vitcheva, V., Simeonova, R., Krasteva, I., et al. Hepatoprotective effects of saponarin, isolated from *Gypsophila trichotoma* Wend. on cocaine-induced oxidative stress in rats. *Redox Rep.* **16(2)**, 56-61 (2011).

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.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 10/19/2022

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897
[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM