



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) 

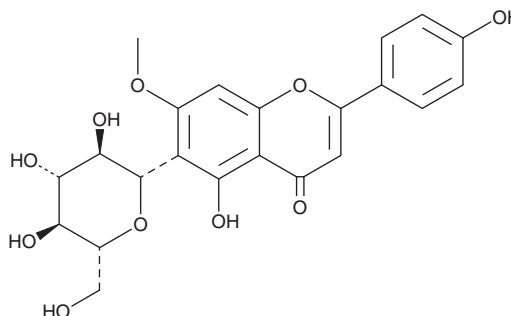
PRODUCT INFORMATION



Swertisin

Item No. 34744

CAS Registry No.: 6991-10-2
Formal Name: 6-β-D-glucopyranosyl-5-hydroxy-2-(4-hydroxyphenyl)-7-methoxy-4H-1-benzopyran-4-one
Synonym: NSC 641547
MF: C₂₂H₂₂O₁₀
FW: 446.4
Purity: ≥98%
UV/Vis.: λ_{max}: 216, 243, 276, 342 nm
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years
Item Origin: Plant/*Swertia bimaculata*



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

Laboratory Procedures

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

Description

Swertisin is a flavonoid C-glycoside that has been found in *Swertia japonica* and has diverse biological activities.¹⁻³ It inhibits sodium-glucose cotransporter 2 (SGLT2) in HEK293 cells when used at a concentration of 7.5 μg/ml and is an adenosine A₁ receptor antagonist (IC₅₀ = 137 μM).^{1,2} Swertisin (0.2-5 μM) inhibits hepatitis B virus (HBV) replication in HepG2 2.2.15 cells.³ It decreases blood glucose levels in a mouse model of diabetes induced by streptozotocin (Item No. 13104), as well as prevents scopolamine-induced increases in escape latency in the Morris water maze in mice.^{1,2}

References

1. Bhardwaj, G., Vakani, M., Srivastava, A., *et al.* Swertisin, a novel SGLT2 inhibitor, with improved glucose homeostasis for effective diabetes therapy. *Arch. Biochem. Biophys.* **710**, 108995 (2021).
2. Lee, H.E., Jeon, S.J., Ryu, B., *et al.* Swertisin, a C-glucosylflavone, ameliorates scopolamine-induced memory impairment in mice with its adenosine A₁ receptor antagonistic property. *Behav. Brain Res.* **306**, 137-145 (2016).
3. Xu, H.-Y., Ren, J.-H., Su, Y., *et al.* Anti-hepatitis B virus activity of swertisin isolated from *Iris tectorum* Maxim. *J. Ethnopharmacol.* **257**, 112787 (2020).

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, 09/03/2021

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