



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) 

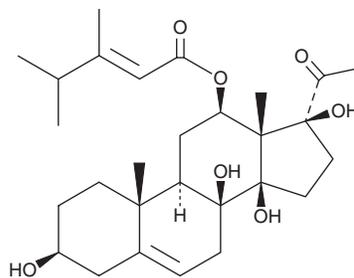
PRODUCT INFORMATION



Caudatin

Item No. 34585

CAS Registry No.: 38395-02-7
Formal Name: (3 β ,12 β ,14 β ,17 α)-12-[[[(2E)-3,4-dimethyl-1-oxo-2-pentenyl]oxy]-3,8,14,17-tetrahydroxy-pregn-5-en-20-one
MF: C₂₈H₄₂O₇
FW: 490.6
Purity: \geq 98%
UV/Vis.: λ_{max} : 220 nm
Supplied as: A solid
Storage: -20°C
Stability: \geq 2 years
Item Origin: Plant/*Cynanchum otophyllum*



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

Laboratory Procedures

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

Caudatin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, caudatin should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Caudatin has a solubility of approximately 0.12 mg/ml in a 1:7 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Caudatin is a C-21 steroid that has been found in *C. auriculatum* and has anticancer activity.^{1,2} It is cytotoxic to SMMC-7721, MCF-7, and HeLa cells (IC₅₀s = 24.95, 65.82, and 247.54 μ M, respectively).¹ Caudatin (50-300 μ M) induces apoptosis in and inhibits mammosphere formation by MDA-MB-231 breast cancer cells, as well as decreases the number of cancer stem cells (CSCs) in the MDA-MB-231 cell population.² *In vivo*, caudatin (10 mg/kg) reduces tumor volume in an MDA-MB-231 mouse xenograft model.

References

1. Peng, Y.-r., Li, Y.-b., Liu, X.-d., *et al.* Antitumor activity of C-21 steroidal glycosides from *Cynanchum auriculatum* Royle ex Wight. *Phytomedicine* **15(11)**, 1016-1020 (2008).
2. Zhen, X., Choi, H.S., Kim, J.-H., *et al.* Caudatin isolated from *Cynanchum auriculatum* inhibits breast cancer stem cell formation via a GR/YAP signaling. *Biomolecules* **10(6)**, 925 (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, 08/02/2021

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