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SZABO-SCANDIC Handels GmbH

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) 

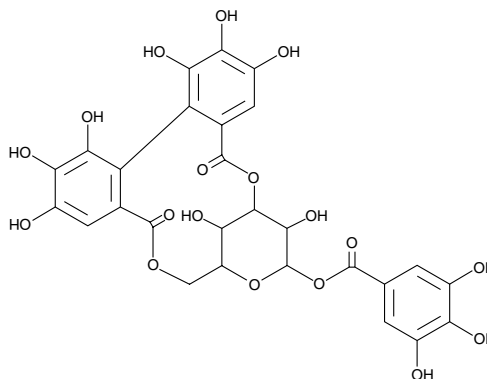
Product Information



Corilagin

Item No. 11832

CAS Registry No.: 23094-69-1
Formal Name: cyclic 3,6-[(1R)-4,4',5,5',6,6'-hexahydroxy[1,1'-biphenyl]-2,2'-dicarboxylate] 1-(3,4,5-trihydroxybenzoate)-β-D-glucopyranose
MF: C₂₇H₂₂O₁₈
FW: 634.5
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 220, 268 nm



Laboratory Procedures

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

Corilagin is supplied as a crystalline solid. A stock solution may be made by dissolving the corilagin in the solvent of choice. Corilagin is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of corilagin in ethanol and DMSO is approximately 25 mg/ml and approximately 20 mg/ml in DMF.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of corilagin can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of corilagin in PBS, pH 7.2, is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Corilagin is a polyphenol and hydrolyzable tannin that can be isolated from a variety of plants.^{1,2} It inhibits squalene epoxidase (IC₅₀ = 4.0 μM), a key enzyme in cholesterol synthesis.¹ Corilagin also has various anti-inflammatory and anti-cancer effects.²⁻⁵

References

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2. Gambari, R., Borgatti, M., Lampronti, I., *et al.* Corilagin is a potent inhibitor of NF-κB activity and downregulates TNF-α induced expression of IL-8 gene in cystic fibrosis IB3-1 cells. *Int. Immunopharmacol.* **13**(3), 308-315 (2012).
3. Xiao, H.-T., Lin, C.-Y., Ho, D.H.H., *et al.* Inhibitory effect of the gallotannin corilagin on dextran sulfate sodium-induced murine ulcerative colitis. *J. Nat. Prod.* **76**(11), 2120-2125 (2013).
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5. Gambari, R., Hau, D.K.P., Wong, W.-Y., *et al.* Sensitization of Hep3B hepatoma cells to cisplatin and doxorubicin by corilagin. *Phytother. Res.* **28**(5), 781-783 (2014).

Related Products

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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

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