



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### 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](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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

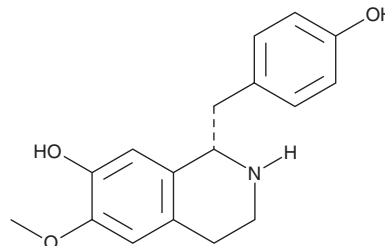
# PRODUCT INFORMATION



## Coclaurine

Item No. 35716

**CAS Registry No.:** 486-39-5  
**Formal Name:** (1S)-1,2,3,4-tetrahydro-1-[(4-hydroxyphenyl)methyl]-6-methoxy-7-isoquinolinol  
**Synonyms:** (S)-Coclaurine, (-)-Coclaurine  
**MF:** C<sub>17</sub>H<sub>19</sub>NO<sub>3</sub>  
**FW:** 285.3  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 227 nm  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:** ≥4 years  
**Item Origin:** Plant/*Lindera aggregata* (Sims) Kosterm.



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

### Laboratory Procedures

Coclaurine is supplied as a solid. A stock solution may be made by dissolving the coclaurine in the solvent of choice, which should be purged with an inert gas. Coclaurine is soluble in acetone, chloroform, dichloromethane, and DMSO.

### Description

Coclaurine is a benzylisoquinoline alkaloid that has been found in *T. quinquenervia* and has nicotinic acetylcholine receptor (nAChR) inhibitory and insecticidal activities.<sup>1,2</sup> It inhibits ACh-induced currents in *Xenopus* oocytes expressing human α4β2 or α4β4 subunit-containing nAChRs (IC<sub>50</sub>s = 49 and 18 μM, respectively).<sup>1</sup> Coclaurine induces mortality in *D. melanogaster* and *C. pomonella* larvae (LD<sub>50</sub>s = 78.2 and 35.4 μg/ml, respectively).<sup>2</sup>

### References

1. Exley, R., Iturriaga-Vásquez, P., Lukas, R.J., *et al.* Evaluation of benzyltetrahydroisoquinolines as ligands for neuronal nicotinic acetylcholine receptors. *Br. J. Pharmacol.* **146**(1), 15-24 (2005).
2. Quiroz-Carreño, S., Pastene-Navarrete, E., Espinoza-Pinochet, C., *et al.* Assessment of insecticidal activity of benzylisoquinoline alkaloids from Chilean Rhamnaceae plants against fruit-fly *Drosophila melanogaster* and the lepidopteran crop pest *Cydia pomonella*. *Molecules* **25**(21), 5094 (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.

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#### 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