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

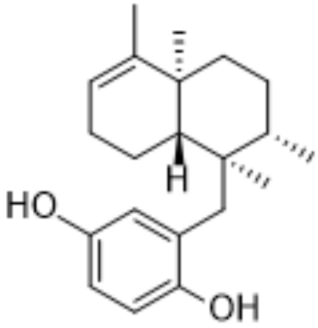
mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

# Avarol

| | |
|---|---|
| **Cat. No.:** | HY-121794 |
| **CAS No.:** | 55303-98-5 |
| **Molecular Formula:** | $C_{21}H_{30}O_2$ |
| **Molecular Weight:** | 314.46 |
| **Target:** | Others |
| **Pathway:** | Others |
| **Storage:** | Please store the product under the recommended conditions in the Certificate of Analysis. |




## BIOLOGICAL ACTIVITY

**Description**

Avarol is a sesquiterpene hydroquinone that can be isolated from Dysidea avara sponge. Avarol has the potential for the research of ehrlich carcinoma (EC) and cervical cancer (CC-5)[1].

**In Vitro**

Avarol (12.5, 25, 50, 100, 200 μg/mL; 72 h) shows cytotoxic for HeLa, LS174, A549, MRC-5 cells with $IC_{50}$s of 10.22, 34.06, 35.27, 29.14 μg/mL, respectively[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Cytotoxicity Assay[1]

| | |
|---|---|
| Cell Line: | HeLa, LS174, A549, MRC-5 cells |
| Concentration: | 12.5, 25, 50, 100, 200 μg/mL |
| Incubation Time: | 72 h |
| Result: | Exhibited the cytotoxic for HeLa, LS174, A549, MRC-5 cells with $IC_{50}$s of 10.22, 34.06, 35.27, 29.14 μg/mL, respectively. |

**In Vivo**

Avarol (50 mg/kg; i.p.; daily for 14 days) shows anti-tumor activity in mice[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

| | |
|---|---|
| Animal Model: | female F1 (CBA × C57BL/6j) mice (Ehrlich carcinoma)[1] |
| Dosage: | 50 mg/kg |
| Administration: | I.p.; daily for 14 days |
| Result: | Inhibited tumor growth with a stable inhibition (25-35%) of EC growth. |

## REFERENCES

[1]. Stanojkovic TP, et al. Evaluation of In Vitro Cytotoxic Potential of Avarol towards Human Cancer Cell Lines and In Vivo Antitumor Activity in Solid Tumor Models. Molecules. 2022 Dec 19;27(24):9048.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA