SZABO SCANDIC

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# 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


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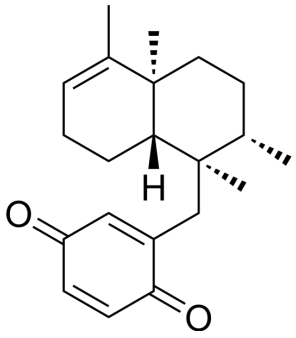
# Avarone

| | |
|---|---|
| **Cat. No.:** | HY-135771 |
| **CAS No.:** | 55303-99-6 |
| **Molecular Formula:** | $C_{21}H_{28}O_2$ |
| **Molecular Weight:** | 312.45 |
| **Target:** | Others |
| **Pathway:** | Others |
| **Storage:** | Please store the product under the recommended conditions in the Certificate of Analysis. |




## BIOLOGICAL ACTIVITY

**Description**

Avarone ((+)-Avarone) is a sesquiterpenoidal quinone that can be isolated from Dysidea avara. Avarone shows cytotoxicity. Avarone shows antileukemic activity[1][2].

**In Vitro**

Avarone (24, 48, 72 h) inhibits U937 cell growth with $IC_{50}$s of 95.8, 52.9, 33.5 μM at 24, 48, 72 h, respectively[1].

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

Cell Cytotoxicity Assay[2]

| | |
|---|---|
| Cell Line: | L5178Y, Melanoma, Hela, fibroblasts, human gingival cells |
| Concentration: | |
| Incubation Time: | |
| Result: | Showed cytotoxicity for L5178Y, Melanoma, Hela, fibroblasts, human gingival cells with $ED_{50}$s of 0.62, 26.4, 8.7, 11.3, 76.4 μM, respectively. |

**In Vivo**

Avarone (10 mg/kg; i.p.; once daily for 5 days) shows increases life span of leukemic mice[2].

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

| | |
|---|---|
| Animal Model: | 8-9 months, 32-35 g Male outbred NMIR mice (L5178Y cells)[2] |
| Dosage: | 10 mg/kg |
| Administration: | I.p.; once daily for 5 days |
| Result: | Increased life span over controls by 146% when treatment was begun 1 day after tumor implantation and by 87% when treatment was delayed until day 8. |

## REFERENCES

[1]. Sakurai J, et al. Highly efficient total synthesis of the marine natural products (+)-avarone, (+)-avarol, (-)-neoavarone, (-)-neoavarol and (+)-aureol. Chemistry. 2008;14(3):829-37.

[2]. Müller WE, et al. Potent antileukemic activity of the novel cytostatic agent avarone and its analogues in vitro and in vivo. Cancer Res. 1985 Oct;45(10):4822-6.



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