



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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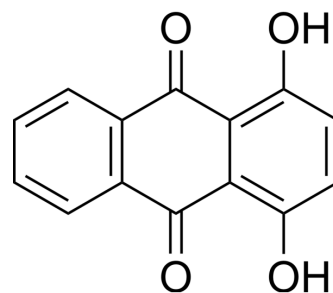
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## Quinizarin

<b>Cat. No.:</b>	HY-D0226
<b>CAS No.:</b>	81-64-1
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>8</sub> O <sub>4</sub>
<b>Molecular Weight:</b>	240.21
<b>Target:</b>	DNA/RNA Synthesis; Fungal
<b>Pathway:</b>	Cell Cycle/DNA Damage; Anti-infection
<b>Storage:</b>	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 3.33 mg/mL (13.86 mM); ultrasonic and warming and heat to 60°C

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.1630 mL	20.8151 mL	41.6302 mL
	5 mM	0.8326 mL	4.1630 mL	8.3260 mL
	10 mM	0.4163 mL	2.0815 mL	4.1630 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Quinizarin (1,4-Dihydroxyanthraquinone), a part of the anticancer agents such as Doxorubicin, Daunorubicin, and Adriamycin, interacts with DNA by intercalating mode ( $K_D=86.1 \mu\text{M}$ ). Quinizarin is used as a fungicide and pesticide chemical and has shown the ability to inhibit tumor cell growth<sup>[1][2]</sup>.

#### In Vitro

1,4-Dihydroxyanthraquinone (1,4-DHAQ, a fluorophore) doped cellulose (CL) (denoted as 1,4-DHAQ@CL) microporous nanofiber film has been achieved via simple electrospinning and subsequent deacetylating, and used for highly sensitive and selective fluorescence detection of Cu(2+) in aqueous solution<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Verebová V, et al. Anthraquinones quinizarin and danthron unwind negatively supercoiled DNA and lengthen linear DNA. *Biochem Biophys Res Commun.* 2014;444(1):50-55.
- [2]. Dominic Cheuk, et al. Investigation into solid and solution properties of quinizarin.

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[3]. Wang M, et al. Electrospun 1,4-DHAQ-doped cellulose nanofiber films for reusable fluorescence detection of trace Cu<sup>2+</sup> and further for Cr<sup>3+</sup>. Environ Sci Technol. 2012;46(1):367-373.

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

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