Quinizarin

Cat. No.:	HY-D0226	
CAS No.:	81-64-1	
Molecular Formula:	C ₁₄ H ₈ O ₄	
Molecular Weight:	240.21	
Target:	DNA/RNA Synthesis; Fungal	
Pathway:	Cell Cycle/DNA Damage; Anti-infection	
Storage:	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)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	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.

DIOLOGICAL ACTIV	
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 μM). Quinizarin is used as a fungicide and pesticide chemical and has shown the ability to inhibit tumor cell growth ^{[1][2]} .
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 ^[1] . 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 Cu2+ and further for Cr3+. Environ Sci Technol. 2012;46(1):367-373.

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

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