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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1-Hydroxyanthraquinone

Cat. No.: HY-W000838

CAS No.: 129-43-1

Molecular Formula: $C_{14}H_8O_3$

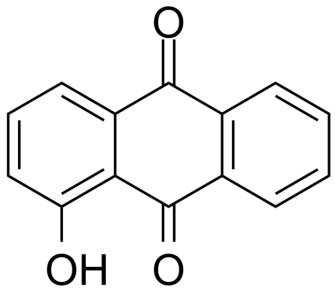
Molecular Weight: 224.21

Target: DNA/RNA Synthesis

Pathway: Cell Cycle/DNA Damage

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 16.67 mg/mL (74.35 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	4.4601 mL	22.3005 mL	44.6010 mL
5 mM	0.8920 mL	4.4601 mL	8.9202 mL
10 mM	0.4460 mL	2.2301 mL	4.4601 mL

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

BIOLOGICAL ACTIVITY

Description

1-Hydroxyanthraquinone, a naturally occurring compound with oral activity from some plants like Tabebuia avellanedae, exhibits carcinogenic effect[1].

In Vivo

1-Hydroxyanthraquinone (HA) generates strong DNA repair response and is carcinogenic in rats[1].

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

Animal Model:	Thirty rats[1].
Dosage:	1% HA in diet.
Administration:	Diet.
Result:	Associated with decreased weight gain which was particularly marked towards the termination of experiment. One of the 30 rats in group 1 (experimental group) died of pneumonia 243 days after the

	start of experiment. A second rat died in an unnourished state at day 280, demonstrating a large tumor in the colon. Seven animals of the group died spontaneously or were sacrificed upon becomingmoribund between 335 and 462 days. A total of 21 rats of group 1 survived until the end of experiment (mean value of totalintake of HA/rat was 76.8 g).

REFERENCES

[1]. H Mori, et al. Carcinogenicity of naturally occurring 1-hydroxyanthraquinone in rats: induction of large bowel, liver and stomach neoplasms. Carcinogenesis. 1990 May;11(5):799-802.

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