



# 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

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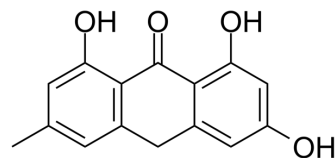
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## Emodinanthrone

<b>Cat. No.:</b>	HY-N9362
<b>CAS No.:</b>	491-60-1
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>12</sub> O <sub>4</sub>
<b>Molecular Weight:</b>	256.25
<b>Target:</b>	Antibiotic
<b>Pathway:</b>	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 : 16.67 mg/mL (65.05 mM; ultrasonic and warming and heat to 80°C)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.9024 mL	19.5122 mL	39.0244 mL
	5 mM	0.7805 mL	3.9024 mL	7.8049 mL
	10 mM	0.3902 mL	1.9512 mL	3.9024 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Emodinanthrone, an anthraquinone, is a precursor of Emodin (HY-14393) with antibiotic activity. Emodinanthrone inhibits respiration-driven solute transport at micromolar concentrations in membrane vesicles of *Escherichia coli*<sup>[1][2][3]</sup>.

#### In Vitro

Emodinanthrone is used as an alternative substrate for the AknX oxygenase assay<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Jin-Young Chung, et al. Expression, purification, and characterization of AknX anthrone oxygenase, which is involved in aklavinone biosynthesis in *Streptomyces galilaeus*. *J Bacteriol.* 2002 Nov;184(22):6115-22.
- [2]. T Ubbink-Kok, et al. Inhibition of electron transfer and uncoupling effects by emodin and emodinanthrone in *Escherichia coli*. *Antimicrob Agents Chemother.* 1986 Jul;30(1):147-51.
- [3]. M K Wang, et al. Triterpenoid saponins from *Berneuxia thebetica*. *Phytochemistry.* 1998 Aug;48(8):1411-4.

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

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