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## Product Data Sheet

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Product Name: Emodinanthrone

Cat. No.: GC69060

### Chemical Properties

Cas. No. 491-60-1

Formula C<sub>15</sub>H<sub>12</sub>O<sub>4</sub>

M.Wt 256.25

Solubility DMSO : 16.67 mg/mL (65.05 mM; ultrasonic and warming and heat to 80°C)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

### Background

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

Emodinanthrone is used as an alternative substrate for the AknX oxygenase assay<sup>[1]</sup>.

[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.

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

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