# TOCRIS a biotechne brand

## **Certificate of Analysis**

#### Print Date: Jan 15th 2016

## www.tocris.com

Product Name: Emodin 518-82-1 CAS Number: **IUPAC Name:** 1,3,8-Trihydroxy-6-methyl-9,10-anthracenedione

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula: Batch Molecular Weight: Physical Appearance:** Solubility:

Storage: **Batch Molecular Structure:**   $C_{15}H_{10}O_5$ .1/2H2O 279.25 Orange solid 1eq. NaOH to 100 mM DMSO to 50 mM Store at +4°C

OН 0 ОH HO 0

2. ANALYTICAL DATA

HPLC: <sup>1</sup>H NMR: Mass Spectrum: **Microanalysis:** 

Shows 97.7% purity Consistent with structure Consistent with structure

Carbon Hydrogen Nitrogen

Theoretical 64.52 3.97 Found 64.4 3.92

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Catalog No.: 3811

Batch No.: 1

EC Number: 208-258-8

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## **Product Information**

#### Print Date: Jan 15th 2016

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Batch No.: 1

EC Number: 208-258-8

CAS Number: 518-82-1 **IUPAC Name:** 1,3,8-Trihydroxy-6-methyl-9,10-anthracenedione

### **Description:**

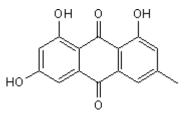
Naturally occurring anthraquinone that displays a range of biological activities. Exhibits anti-inflammatory, antitumor and neuroprotective effects.

#### **Physical and Chemical Properties:**

Batch Molecular Formula: C15H10O5.1/2H2O Batch Molecular Weight: 279.25 Physical Appearance: Orange solid

Minimum Purity: >97%

**Batch Molecular Structure:** 



#### Storage: Store at +4°C

Solubility & Usage Info: 1eq. NaOH to 100 mM

DMSO to 50 mM

**Stability and Solubility Advice:** 

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

#### **References:**

Wu et al (2007) Emodin-mediated protection from acute myocardial infarction via inhibition of inflammation and apoptosis in local ischemic myocardium. Life Sci. 81 1332. PMID: 17939930.

Chun-Guang et al (2010) Anti-tumor activity of emodin against human chronic myelocytic leukemia K562 cell lines in vitro and in vivo. Eur.J.Pharmacol. 627 33. PMID: 19857484.

Liu et al (2010) Neuroprotective effects of emodin in rat cortical neurons against β-amyloid-induced neurotoxicity. Brain Res. 1347 149. PMID: 20573598.

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