# TOCRIS a biotechne brand

# **Certificate of Analysis**

#### Print Date: Jan 14th 2016

### www.tocris.com

Catalog No.: 4663 EC Number: 207-854-5 Batch No.: 1

Product Name:ApocyninCAS Number:498-02-2IUPAC Name:4'-Hydroxy-3'-methoxyacetophenone

## 1. PHYSICAL AND CHEMICAL PROPERTIES

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

**Batch Molecular Structure:** 

C<sub>9</sub>H<sub>10</sub>O<sub>3</sub> 166.17 Pale orange solid DMSO to 100 mM ethanol to 100 mM Store at RT

O OMe OH

2. ANALYTICAL DATA

Storage:

HPLC: <sup>1</sup>H NMR: Mass Spectrum: Microanalysis: Shows 100% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen

Theoretical 65.05 6.06 Found 65.15 6.07

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

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# **Product Information**

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Print Date: Jan 14th 2016

Batch No.: 1

#### Product Name: Apocynin

CAS Number: 498-02-2 IUPAC Name: 4'-Hydroxy-3'-methoxyacetophenone

#### **Description:**

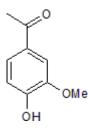
NADPH oxidase inhibitor. Demonstrates anti-inflammatory properties in a mouse model of carrageenan-induced pleurisy. Bioactivated by intracellular peroxidases; acts as an antioxidant in endothelial cells and vascular smooth muscle cells.

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

Batch Molecular Formula: C<sub>9</sub>H<sub>10</sub>O<sub>3</sub> Batch Molecular Weight: 166.17 Physical Appearance: Pale orange solid

Minimum Purity: >99%

#### **Batch Molecular Structure:**



## Storage: Store at RT

Solubility & Usage Info: DMSO to 100 mM ethanol to 100 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).

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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:**

Stolk et al (1994) Characteristics of the inhibition of NADPH oxidase activation in neutrophils by apocynin, a methoxy-substituted catechol. Am.J.Respir.Cell Mol.Biol. 11 95. PMID: 8018341.

Heumüller et al (2008) Apocynin is not an inhibitor of vascular NADPH oxidases but an antioxidant. Hypertension 51 211. PMID: 18086956.

Impellizzeri et al (2011) Effect of apocynin, a NADPH oxidase inhibitor, on acute lung inflammation. Biochem. Pharmacol. 81 636. PMID: 21147071.

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