

# **Certificate of Analysis**

Print Date: Jan 18<sup>th</sup> 2016 **WWW.tocris.com** 

Product Name: Vinpocetine Catalog No.: 0757 Batch No.: 2

CAS Number: 42971-09-5 EC Number: 256-028-0

IUPAC Name: (3α,16α)-Eburnamenine-14-carboxylic acid ethyl ester

#### 1. PHYSICAL AND CHEMICAL PROPERTIES

 $\begin{array}{lll} \textbf{Batch Molecular Formula:} & \textbf{$C_{22}$H$}_{26}$\textbf{$N_2$O$}_2\\ \textbf{Batch Molecular Weight:} & 350.46\\ \textbf{Physical Appearance:} & \textbf{White solid} \end{array}$ 

**Solubility:** ethanol to 50 mM

DMSO to 10 mM with gentle warming

Storage: Store at RT

**Batch Molecular Structure:** 

### 2. ANALYTICAL DATA

**TLC:**  $R_f = 0.55$  (Dichloromethane:Methanol [10:1])

Melting Point:

Between 156 - 157°C

HPLC:

Shows >99.8% purity

1H NMR:

Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 75.4 7.48 7.99 Found 75.73 7.53 8



## **Product Information**

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CAS Number: 42971-09-5 EC Number: 256-028-0

**IUPAC Name:** (3α,16α)-Eburnamenine-14-carboxylic acid ethyl ester

#### **Description:**

Phosphodiesterase inhibitor, selective for PDE1 (IC<sub>50</sub> = 21  $\mu$ M). Also blocks voltage-gated Na+ channels.

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

Batch Molecular Formula: C22H26N2O2 Batch Molecular Weight: 350.46 Physical Appearance: White solid

Minimum Purity: >99%

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

Storage: Store at RT

#### Solubility & Usage Info:

ethanol to 50 mM

DMSO to 10 mM with gentle warming

#### 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:

Merck Index 12 10128.

Hagiwara et al (1984) Effect of vinpocetine on cyclic nucleotide metabolism in vascular smooth muscle. Biochem.Pharmacol. 33 453. PMID: 6322804.

Molnar and Erdo (1995) Vinpocetine is as potent as phenytoin to block voltage-gated Na+ channels in rat cortical neurons. Eur.J.Pharmacol. 273 303. PMID: 7737339.