# TOCRIS a biotechne brand

# **Certificate of Analysis**

# www.tocris.com

Print Date: Jan 14th 2016

## Product Name: Psora 4

Catalog No.: 4367 Batch No.: 1

CAS Number: 724709-68-6 IUPAC Name: 4-(4-Phenylbutoxy)-7*H*-furo[3,2-*g*][1]benzopyran-7-one

# 1. PHYSICAL AND CHEMICAL PROPERTIES

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

**Batch Molecular Structure:** 

C<sub>21</sub>H<sub>18</sub>O<sub>4</sub> 334.37 White solid DMSO to 50 mM ethanol to 10 mM Store at -20°C

o 0

# 2. ANALYTICAL DATA

Storage:

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

Shows 99.6% purity Consistent with structure Consistent with structure

Carbon Hydrogen Nitrogen Theoretical 75.43 5.43 Found 75.49 5.3

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

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# **Product Information**

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# Product Name: Psora 4

Catalog No.: 4367 B

Batch No.: 1

CAS Number: 724709-68-6 IUPAC Name: 4-(4-Phenylbutoxy)-7*H*-furo[3,2-*g*][1]benzopyran-7-one

## **Description:**

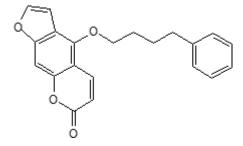
Potent K<sub>V</sub>1.3 channel blocker (EC<sub>50</sub> = 3 nM). Preferentially binds the C-type inactivated state of the channel, similar to the activity of CP 339818 (Cat. No. 1399). Displays 17- to 70-fold selectivity over closely-related K<sub>V</sub>1 channels (K<sub>V</sub>1, K<sub>V</sub>2, K<sub>V</sub>4 and K<sub>V</sub>7); exhibits activity at K<sub>V</sub>1.5 (IC<sub>50</sub> = 7.7 nM). Suppresses proliferation of human and rat myelin-specific effector memory T cells (EC<sub>50</sub> values are 25 and 60 nM respectively).

## **Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>21</sub>H<sub>18</sub>O<sub>4</sub> Batch Molecular Weight: 334.37 Physical Appearance: White solid

### Minimum Purity: >99%

### **Batch Molecular Structure:**



## Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

#### Solubility & Usage Info:

DMSO to 50 mM ethanol to 10 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:**

**Vennekamp** *et al* (2004) Kv1.3-blocking 5-phenylalkoxypsoralens: a new class of immunomodulators. Mol.Pharmacol. *65* 1364. PMID: 15155830.

Schmitz et al (2005) Design of PAP-1, a selective small molecule Kv1.3 blocker, for the suppression of effector memory T cells in autoimmune diseases. Mol.Pharmacol. 68 1254. PMID: 16099841.

Li *et al* (2006) Voltage-gated potassium channel Kv1.3 regulates GLUT4 trafficking to the plasma membrane via a Ca<sup>2+-</sup>dependent mechanism. Am.J.Physiol.Cell Physiol. **290** C345. PMID: 16403947.

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