

# **Certificate of Analysis**

Print Date: Jan 13th 2016

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Product Name: Gallein Catalog No.: 3090 Batch No.: 2

CAS Number: 2103-64-2 EC Number: 218-272-6

IUPAC Name: 3',4',5',6'-Tetrahydroxyspiro[isobenzofuran-1(3*H*),9'-(9*H*)xanthen]-3-one

## 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:  $C_{20}H_{12}O_7.2\frac{1}{2}H_2O$ 

**Batch Molecular Weight:** 409.35 **Physical Appearance:** Black solid

**Solubility:** DMSO to 75 mM

ethanol to 10 mM

Storage: Store at -20°C

**Batch Molecular Structure:** 

## 2. ANALYTICAL DATA

<sup>1</sup>H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrog

Theoretical 58.68 4.19 Found 58.51 3.99

Carbon Hydrogen Nitrogen



## **Product Information**

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IUPAC Name: 3',4',5',6'-Tetrahydroxyspiro[isobenzofuran-1(3H),9'-(9H)xanthen]-3-one

## **Description:**

Inhibitor of G protein  $\beta\gamma$  subunit-dependent signaling. Blocks PI 3-kinase and Rac1 activation in HL60 cells and chemotaxis in HL60 differentiated cells.

## **Physical and Chemical Properties:**

Batch Molecular Formula:  $C_{20}H_{12}O_7.21/2H_2O$ 

Batch Molecular Weight: 409.35 Physical Appearance: Black solid

## **Minimum Purity: >97%**

#### **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 75 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:

**Lehmann** *et al* (2008) Small molecule disruption of G protein βγ subunit signaling inhibits neutrophil chemotaxis and inflammation. Mol.Pharmacol. **73** 410. PMID: 18006643.

**Ukhanov** *et al* (2011) Phosphoinositide 3-kinase-dependent antagonism in mammalian olfactory receptor neurons. J.Neurosci. *31* 273. PMID: 21209212.