

## Certificate of Analysis

**Product Name:** Pentoxyresorufin

**Catalog No.:** 4816

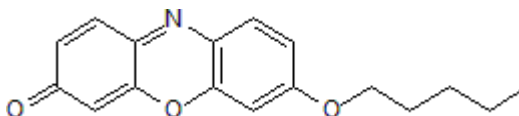
**Batch No.:** 1

CAS Number: 87687-03-4

IUPAC Name: 7-(Pentyloxy)-3*H*-phenoxazin-3-one

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>17</sub>H<sub>17</sub>NO<sub>3</sub>·¼H<sub>2</sub>O  
**Batch Molecular Weight:** 287.82  
**Physical Appearance:** Brown solid  
**Solubility:** DMSO to 5 mM  
 ethanol to 10 mM with gentle warming  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 98.5% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	70.94	6.13	4.87
Found	70.93	5.92	4.92

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

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**Description:**

Fluorometric cytochrome P450 substrate.

**Physical and Chemical Properties:**

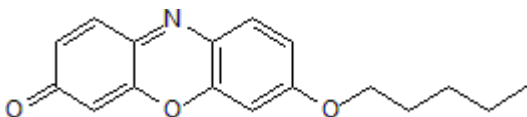
Batch Molecular Formula: C<sub>17</sub>H<sub>17</sub>NO<sub>3</sub>·¼H<sub>2</sub>O

Batch Molecular Weight: 287.82

Physical Appearance: Brown solid

**Minimum Purity:** >98%

**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 5 mM

ethanol 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:**

**Lubet *et al*** (1985) Dealkylation of pentoxyresorufin: a rapid and sensitive assay for measuring induction of cytochrome(s) *P*-450 by phenobarbital and other xenobiotics in the rat. *Arch.Biochem.Biophys.* **238** 43. PMID: 3985627.

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