

Certificate of Analysis

Product Name: Methoxyresorufin

Catalog No.: 4814

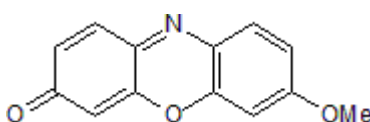
Batch No.: 1

CAS Number: 5725-89-3

IUPAC Name: 7-Methoxy-3*H*-phenoxazin-3-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₉NO₃·0.33H₂O
Batch Molecular Weight: 233.2251
Physical Appearance: Brown solid
Solubility: DMSO to 1 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	66.97	4.14	6
Found	66.72	3.8	6.02

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

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IUPAC Name: 7-Methoxy-3*H*-phenoxazin-3-one

Description:

Fluorometric substrate of cytochrome P450; displays preferential metabolism by rodent cytochrome P4501A2 (CYP1A2).

Physical and Chemical Properties:

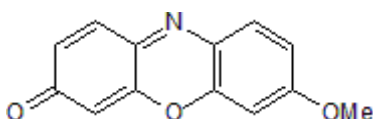
Batch Molecular Formula: C₁₃H₉NO₃·0.33H₂O

Batch Molecular Weight: 233.2251

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 1 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:

Nerurkar et al (1993) Methoxyresorufin and benzyloxyresorufin: substrates preferentially metabolized by the cytochromes P4501A2 and 2B, respectively, in the rat and mouse. *Biochem.Pharmacol.* **46** 933. PMID: 8373445.

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