

Certificate of Analysis

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Product Name: BVT 948

Catalog No.: 2176

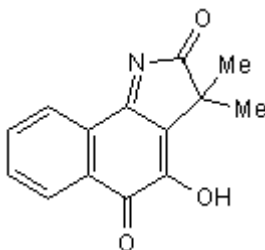
Batch No.: 3

CAS Number: 39674-97-0

IUPAC Name: 4-Hydroxy-3,3-dimethyl-2H-benz[*g*]indole-2,5(3*H*)-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₁NO₃
Batch Molecular Weight: 241.25
Physical Appearance: Red solid
Solubility: ethanol to 50 mM
 DMSO to 50 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.2 (Ethyl acetate:Petroleum ether [3:2])
HPLC: Shows >99.5% purity
¹H NMR: Consistent with structure
Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	69.7	4.6	5.81
Found	69.54	4.87	5.58

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

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Description:

Non-competitive, cell-permeable inhibitor of protein tyrosine phosphatases (PTPs) (IC_{50} = 0.09 - 1.7 μ M); displays irreversible inhibition through catalysis of the hydrogen peroxide-dependent oxidation of PTP. Enhances insulin signaling in vitro and insulin tolerance in ob/ob mice in vivo. Also inhibits several cytochrome P450 isoforms (IC_{50} < 10 μ M).

Physical and Chemical Properties:

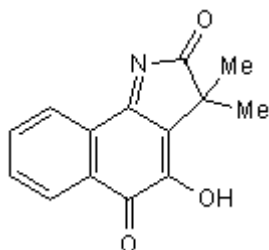
Batch Molecular Formula: C₁₄H₁₁NO₃

Batch Molecular Weight: 241.25

Physical Appearance: Red solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Liljebris *et al* (2004) Oxidation of protein tyrosine phosphatases as a pharmaceutical mechanism of action: a study using 4-hydroxy-3,3-dimethyl-2H-benzo[*g*]indole-2,5(3*H*)-dione. *J.Pharmacol.Exp.Ther.* **309** 711. PMID: 14747616.

Storage: Store at RT

Solubility & Usage Info:

ethanol to 50 mM

DMSO to 50 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.

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