

Certificate of Analysis

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Product Name: R162

Catalog No.: 6054

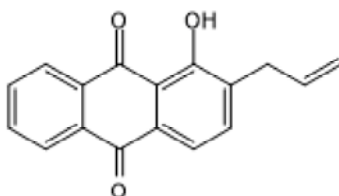
Batch No.: 1

CAS Number: 64302-87-0

IUPAC Name: 1-Hydroxy-2-(2-propen-1-yl)-9,10-anthracenedione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₂O₃
Batch Molecular Weight: 264.28
Physical Appearance: Yellow solid
Solubility: DMSO to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.31 (Ethyl acetate:Petroleum ether [1:4])
HPLC: Shows 98.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	77.26	4.58	
Found	77.21	4.57	

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

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Product Information

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Catalog No.: 6054

Batch No.: 1

CAS Number: 64302-87-0

IUPAC Name: 1-Hydroxy-2-(2-propen-1-yl)-9,10-anthracenedione

Description:

Glutamate dehydrogenase (GHD1) inhibitor (IC_{50} = 23 μ M). Decreases fumarate and ROS levels, attenuates glutathione peroxidase levels and inhibits cell proliferation in cancer cell lines. Attenuates viability of a range of cancer cell lines.

Physical and Chemical Properties:

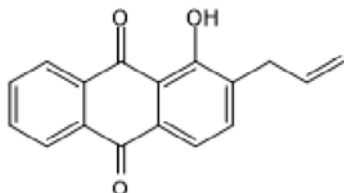
Batch Molecular Formula: $C_{17}H_{12}O_3$

Batch Molecular Weight: 264.28

Physical Appearance: Yellow 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 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.

References:

Jin et al (2015) Glutamate dehydrogenase 1 signals through antioxidant glutathione peroxidase 1 to regulate redox homeostasis and tumor growth. *Cancer Cell*. **27** 257. PMID: 25670081.

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