

Product Name: Radicol

Catalog No.: 1589

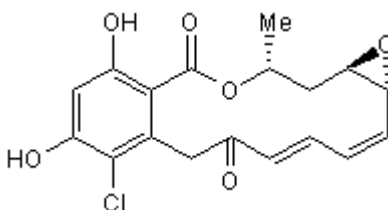
Batch No.: 3

CAS Number: 12772-57-5

IUPAC Name: (1*aR*,2*Z*,4*E*,14*R*,15*aR*)-8-Chloro-1*a*,14,15,15*a*-tetrahydro-9,11-dihydroxy-14-methyl-6*H*-oxireno[*e*][2]benzoxacyclotetradecin-6,12(7*H*)-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₇ClO₆
Batch Molecular Weight: 364.78
Physical Appearance: White lyophilised solid
Solubility: ethanol to 25 mM
Storage: Desiccate at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 205 - 209°C
HPLC: Shows 100% purity
Mass Spectrum: Consistent with structure

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

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Description:

Antifungal antibiotic. Inhibits heat shock protein 90 (Hsp90) activity by binding to the ATP-binding pocket, subsequently suppressing cell transformation induced by src, ras and mos. Represses estrogen receptor transcriptional activity and inhibits angiogenesis.

Physical and Chemical Properties:

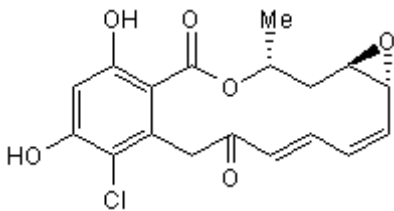
Batch Molecular Formula: C₁₈H₁₇ClO₆

Batch Molecular Weight: 364.78

Physical Appearance: White lyophilised solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at -20°C

Solubility & Usage Info:

ethanol to 25 mM

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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:

Oikawa et al (1993) Radicol, a microbial cell differentiation modulator, inhibits in vivo angiogenesis. *Eur.J.Pharmacol.* **241** 221. PMID: 7694864.

Schulte et al (1999) Interaction of radicol with members of the heat shock protein 90 family of molecular chaperones. *Mol.Endocrinol.* **13** 1435. PMID: 10478836.

Lee et al (2002) Radicol represses the transcriptional function of the estrogen receptor by suppressing the stabilization of the receptor by heat shock protein 90. *Mol.Cell.Endocrinol.* **188** 47. PMID: 11911945.

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