

Certificate of Analysis

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Product Name: 17-AAG

Catalog No.: 1515

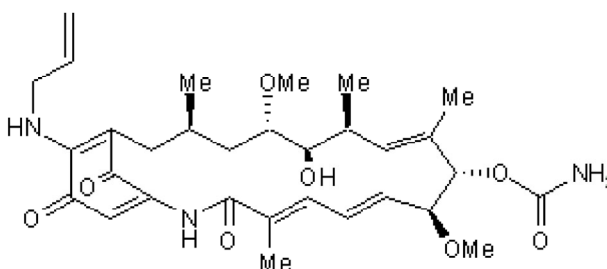
Batch No.: 6

CAS Number: 75747-14-7

IUPAC Name: 17-Demethoxy-17-(2-propenylamino)geldanamycin

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₁H₄₃N₃O₈
Batch Molecular Weight: 585.7
Physical Appearance: Purple solid
Solubility: DMSO to 10 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.8% purity
Mass Spectrum: Consistent with structure

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

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
 Tel: (800) 343 7475

China
info.cn@bio-techne.com
 Tel: +86 (21) 52380373

Europe Middle East Africa
 Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
 Tel: +1 612 379 2956

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Description:

17-AAG is an inhibitor of heat shock protein 90 (Hsp90) chaperone activity, and an analog of geldanamycin (Cat. No. 1368). Subsequently inhibits the activity of oncogenic proteins such as p185^{erbB-2} (IC₅₀ = 31 nM), N-ras, Ki-ras and c-Akt. Antitumor in vivo. Also protects neuroprogenitor cells against stress-induced apoptosis at low concentrations (10 nM) in vitro.

Physical and Chemical Properties:

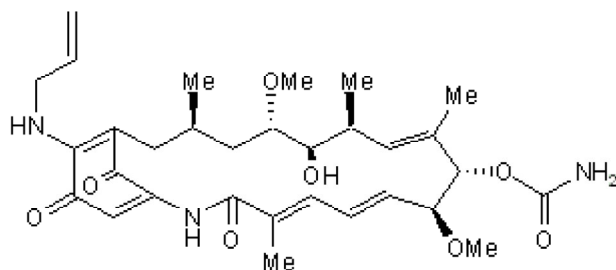
Batch Molecular Formula: C₃₁H₄₃N₃O₈

Batch Molecular Weight: 585.7

Physical Appearance: Purple 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 10 mM

This product is supplied in lyophilized form. It may appear as a solid, gel or film and 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Wang et al (2011) Protection of murine neural progenitor cells by the Hsp90 inhibitor 17-allylamino-17-demethoxygeldanamycin in the low nanomolar concentration range. *J. Neurochem.* **117** 703. PMID: 21395580.

Hostein et al (2001) Inhibition of signal transduction by the Hsp90 inhibitor 17-allylamino-17-demethoxygeldanamycin results in cytostasis and apoptosis. *Cancer Res.* **61** 4003. PMID: 11358818.

Yang et al (2001) Disruption of the EF-2 kinase/Hsp90 protein complex: a possible mechanism to inhibit glioblastoma by geldanamycin. *Cancer Res.* **61** 4010. PMID: 11358819.

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