

Product Name: Herbimycin A

Catalog No.: 1629

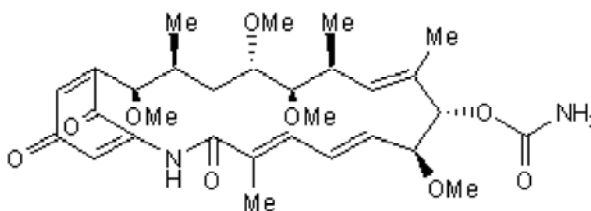
Batch No.: 5

CAS Number: 70563-58-5

IUPAC Name: (15*R*)-17-demethoxy-15-methoxy-11-*O*-methyl-geldanamycin

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₀H₄₂N₂O₉
Batch Molecular Weight: 574.67
Physical Appearance: Yellow solid
Solubility: DMSO to 1 mg/ml
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >99% purity

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

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Description:

Herbimycin A is an ansamycin antibiotic that acts as a Src family kinase inhibitor. Binds to the SH domain and inhibits the activity of p60^{v-src} and p210^{BCR-ABL}. Exhibits antiangiogenic activity in endothelial cells in vitro. Also inhibits Hsp90 and impairs recovery from heat shock.

Physical and Chemical Properties:

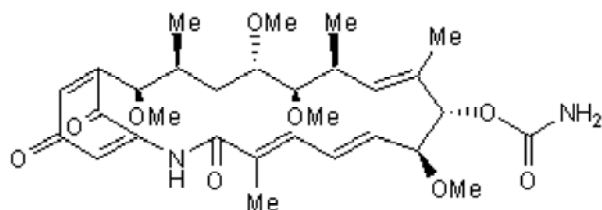
Batch Molecular Formula: C₃₀H₄₂N₂O₉

Batch Molecular Weight: 574.67

Physical Appearance: Yellow solid

Minimum Purity: ≥95%

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 mg/ml

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:

Duncan (2005) Inhibition of Hsp90 function delays and impairs recovery from heat shock. *FEBS J.* **272** 5244. PMID: 16218955.

McCollum et al (2004) Herbimycin A inhibits angiogenic activity in endothelial cells and reduces neovascularization in a rat model of retinopathy of prematurity. *Exp. Eye Res.* **78** 987. PMID: 15051479.

Fukazawa et al (1994) Labeling of v-Src and BCR-ABL tyrosine kinases with [¹⁴C]herbimycin A and its use in the elucidation of the kinase inactivation mechanism. *FEBS Lett.* **340** 155. PMID: 8131836.

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