

17-AAG Inhibitor

Catalog# SIH-100A

Size: 1mg

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This product is for *in vitro* research use only and is not intended for use in humans or animals

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Product	17-AAG 17-(allylamino)-17-demethoxygeldanamycin
Formula	C ₃₁ H ₄₃ N ₃ O ₈
MW	585.7
Source/Host	Synthetic
Purity	98% TLC:5% methanol/methylene chloride; R _f =0.26
Solubility	Soluble in DMSO (>20mg/mL) or methanol (10mg/mL)
Appearance	Purple solid
Storage and stability	-20°C; 1 year+; shipped ambient Protect from light.

Scientific Background

Glendanamycin (GA), a benzoquinone ansamycin antibiotic, interferes with the action of Hsp90 leading to degradation of Hsp90 client proteins. GA itself however has undesirable properties such as poor aqueous solubility and liver toxicity; therefore, numerous analogs have been synthesized, such as 17-AAG(1). 17-AAG is an HSP-90 inhibitor that displays a 100-fold higher affinity for HSP-90 derived from tumor cells compared to HSP-90 from normal cells(2). 17-AAG inhibits Akt activation and expression in tumors and synergizes with a number of antitumor agents such as taxol(3), cisplatin(4) and UCN-01 (400 nM 17-AAG, U937 cells)(5).

Selected References

1. Neckers L. (2002) *Trends Mol Med.* 84: 555-61.
2. Kamal A., *et al.*(2003) *Nature* 425: 407.
3. Solit D.B., *et al.*(2003) *Cancer Res.* 63: 2139.
4. Vasilevskaya I.A., *et al.* (2003) *Mol.Pharmacol.* 2003 65: 235.
5. Jia W., *et al.*(2003) *Blood* 102: 1824.

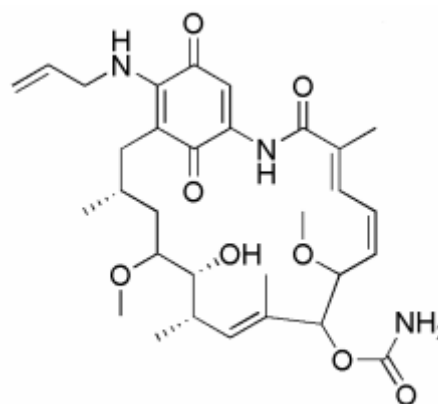


Figure 1: Structure of 17-AAG

Material Safety Data Sheet

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The below information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. StressMarq shall not be held liable for any damage resulting from handling or from contact with the above product. See the Technical Specification, Packing Slip, Invoice, and Product Catalogue for additional terms and conditions of sale.

Hazardous Ingredients

The physical, chemical and toxicological properties of these components have not been fully investigated. It is recommended that all laboratory personnel follow standard laboratory safety procedures when handling this product. Safety procedures should include wearing OSHA approved safety glasses, gloves and protective clothing. Direct physical contact with this product should be avoided.

Known Hazardous Components

None

CAS Number

Percent

Physical Data

This product consists of powder shipped at ambient temperatures. The physical properties of this product have not been investigated thoroughly. CAS number 75747-14-7, Chemical Class: Ansamycin antibiotic derivative

Fire and Explosion Hazard and Reactivity Data

NOT APPLICABLE

Toxicological Properties

May be harmful by inhalation, ingestion, or skin absorption. The toxicological properties of this product have not been investigated thoroughly. Exercise due caution.

Preventative Measures

Wear chemical safety goggles and compatible chemical-resistant gloves. Avoid inhalation, contact with eyes, skin or clothing.

Spill and Leak Procedures

Observe all federal, state and local environmental regulations.

- Wear protective equipment.
- Absorb on sand or vermiculite and place in closed containers for disposal.
- Dispose or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

First Aid Measures

- If swallowed, wash out mouth with water, provided person is conscious. Call a physician.
- In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If a rash or other irritation develops, call a physician.
- If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
- In case of eye contact, flush with copious amounts of water for at least 15 minutes while separating the eyelids with fingers. Call a physician.

Authorized: StressMarq Biosciences Inc.
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