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Store at -20C
#8132

17-AAG

500 µg

For Research Use Only. Not for Use in Diagnostic Procedures.

Background

17-AAG is a semi-synthetic derivative of geldanamycin, demonstrating greater stability than its parent compound (1). It binds specifically to heat shock protein HSP90 in a manner similar to geldanamycin, but with weaker binding (1). Through specific binding with HSP90, 17-AAG has been shown to decrease levels of many proteins including androgen receptor (AR), HER2, and Akt, while increasing levels of HSP90 in prostate cancer cell lines (2). 17-AAG binds to a conserved pocket in the HSP90 family of chaperone proteins and this occupation causes the degradation of several signaling proteins (2).

Molecular Formula

C₃₁H₄₃N₃O₈

Molecular Weight

585.7 g/mol

Purity

>98%

CAS

75747-14-7

Solubility

Soluble in DMSO at 50mg/ml or EtOH at 5mg/ml.

Storage

Store lyophilized or in solution at -20°C, desiccated. Protect from light. In lyophilized form, the chemical is stable for 24 months. Once in solution, use within 3 months to prevent loss of potency. Aliquot to avoid multiple freeze/thaw cycles.

Directions for Use

17-AAG is supplied as a lyophilized powder. For a 1 mM stock, reconstitute the 500 µg in 853.7 µl DMSO. Working concentrations and length of treatment can vary depending on the desired effect, but it is typically used at 0.1-1 µM for 4-24 hours. Soluble in DMSO at 150 mg/mL; soluble in ethanol at 5 mg/mL. Maximum solubility in plain water estimated to be about 20-50 µM.

Background References

- Schulte, T.W. and Neckers, L.M. (1998) *Cancer Chemother Pharmacol* 42, 273-9.
- Solit, D.B. et al. (2002) *Clin Cancer Res* 8, 986-93.

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