

Product Name:	17-AAG
Product Number:	A061
CAS Number:	75747-14-7
Molecular Formula:	C ₃₁ H ₄₃ N ₃ O ₈
Molecular Weight:	585.69
Form:	Powder
Appearance:	Purple powder
Source:	Synthetic
Storage Conditions:	-20 °C
Description:	17-AAG (17-N-Allylamino-17-demethoxygeldanamycin) is a geldanamycin-derived anti-tumor agent currently used in cancer research. It is an inhibitor of heat shock protein 90.
Mechanism of Action:	17-AAG targets and inactivates Hsp90 (heat shock protein 90), which is expressed in certain types of leukemia and lymphomas as well as solid tumors.
Cancer Applications	17-AAG has been shown to induce cell-cycle arrest and apoptosis in cultured ALCL cells irrespective of ALK expression. In addition, 17-AAG has shown promising results in the treatment of uveal melanoma through inhibition of HSP-90 in tandem with c-Kit inhibition.
References:	<p>Hawkins LM, Jayanthan AA, Narendran A (2005) Effects of 17-allylamino-17-demethoxygeldanamycin (17-AAG) on pediatric acute lymphoblastic leukemia (ALL) with respect to Bcr-Abl status and imatinib mesylate sensitivity. <i>Pediatr Res.</i> 57(3):430-437</p> <p>Massimini M et al (2017) 17-AAG and apoptosis, autophagy, and mitophagy in canine osteosarcoma cell lines. <i>Vet. Pathol.</i> 54(3):405-412</p> <p>Radujkovic A et al (2005) Synergistic activity of imatinib and 17-AAG in imatinib-resistant CML cells overexpressing BCR-ABL--Inhibition of P-glycoprotein function by 17-AAG. <i>Leukemia.</i> 19(7):1198-1206</p>