



LKT Laboratories, Inc.

## 17-Allylaminogeldanamycin

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### Product Information

Product ID A0025

CAS No. 75747-14-7

#### Chemical Name

**Synonym** 17-(Allylamino)-17-desmethoxy-geldanamycin, allylaminogeldanamycin, 17-AAG, telatinib.

**Formula** C<sub>31</sub>H<sub>43</sub>N<sub>3</sub>O<sub>8</sub>

**Formula Wt.** 585.69

**Melting Point** 200-205 °C

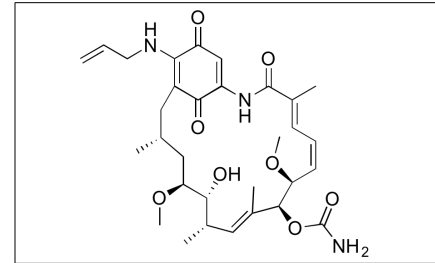
**Purity** ≥97%

**Solubility** Soluble in DMSO or methanol.

**Store Temp** 4 °C

**Ship Temp** Ambient

**Description** Geldanamycin derivative 17-AAG is an inhibitor of heat shock protein 90 (HSP90) that exhibits anti-inflammatory, anticancer chemotherapeutic, and antiviral activities. In endothelial cells, 17-AAG induces degradation of IκBα, attenuating NF-κB activation. 17-AAG induces Bax-dependent apoptosis in a variety of cancer models, both in vitro as well as in vivo. Additionally, 17-AAG inhibits replication of human cytomegalovirus.



**Bulk quantities available upon request**

Product ID	Size
A0025	0.5 mg
A0025	1 mg
A0025	5 mg
A0025	25 mg

**References** Thangjam GS, Dimitropoulou C, Joshi AD, et al. Novel mechanism of attenuation of LPS-induced NF-κB activation by the heat shock protein 90 inhibitor, 17-N-allylamino-17-demethoxygeldanamycin, in human lung microvascular endothelial cells. *Am J Respir Cell Mol Biol.* 2014 May;50(5):942-52. PMID: 24303801.

Powers MV, Valenti M, Miranda S, et al. Mode of cell death induced by the HSP90 inhibitor 17-AAG (tanespimycin) is dependent on the expression of pro-apoptotic BAX. *Oncotarget.* 2013 Nov;4(11):1963-75. PMID: 24185264.

Evers DL, Chao CF, Zhang Z, et al. 17-allylamino-17-(demethoxy)geldanamycin (17-AAG) is a potent and effective inhibitor of human cytomegalovirus replication in primary fibroblast cells. *Arch Virol.* 2012 Oct;157(10):1971-4. PMID: 22711259.

Gloesenkamp C, Nitzsche B, Lim AR, et al. Heat shock protein 90 is a promising target for effective growth inhibition of gastrointestinal neuroendocrine tumors. *Int J Oncol.* 2012 May;40(5):1659-67. PMID: 22246317.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.