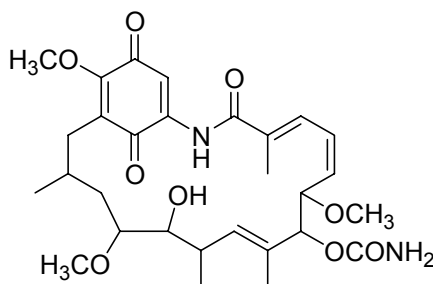


## Geldanamycin

Code: **BIA-G1101**

Pack sizes: **1.0 mg, 5.0 mg**



Synonyms :

## Specifications

CAS #	: <b>30562-34-6</b>
Molecular Formula	: <b>C<sub>29</sub>H<sub>40</sub>N<sub>2</sub>O<sub>9</sub></b>
Molecular Weight	: <b>560.6</b>
Source	: <b><i>Streptomyces hygroscopicus</i> (MST-AS5545)</b>
Appearance	: <b>Yellow solid</b>
Purity	: <b>&gt; 99% by HPLC</b>
Long Term Storage	: <b>4°C</b>
Solubility	: <b>Soluble in ethanol, methanol, DMF or DMSO.</b>

## Application Notes

Geldanamycin is benzoquinone, ansamycin antibiotic isolated from *Streptomyces hygroscopicus*. It is a potent antitumor agent that acts by binding to the 90-kDa heat-shock protein (Hsp90) essential to maintain the conformation, stability, activity and cellular localisation of several key oncogenic proteins such as ERBB2, C-RAF, CDK4, AKT/PKB, steroid hormone receptors, mutant p53, HIF-1 $\alpha$ , survivin and telomerase hTERT.

## References

1. Crystal structure of an Hsp90-geldanamycin complex: targeting of a chaperone by an antitumor agent. Stebbins C.E. et al. *Cell* **1997**, 89, 239.
2. Pharmacologic shifting of a balance between protein refolding and degradation mediated by Hsp90. Schneider C. et al. *Proc. Natl Acad. Sci. USA* **1996**, 93, 14536.
3. Preclinical evaluation of geldanamycin as an antitumor agent. Supko J.G et al. *Cancer Chemother. Pharmacol.* **1995**, 36, 305.