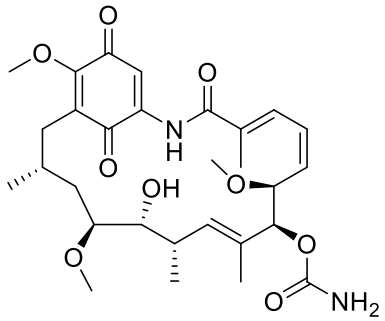
bioaustralis
fine chemicals

PRODUCT DATA SHEET

Geldanamycin

Code No.: **BIA-G1101**

Pack sizes: **1 mg, 5 mg**



Synonyms :

Specifications

CAS #	:	**30562-34-6**
Molecular Formula	:	**$C_{29}H_{40}N_2O_9$**
Molecular Weight	:	**560.6**
Source	:	***Streptomyces hygroscopicus***
Appearance	:	**Yellow solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.**

Application Notes

Geldanamycin is benzoquinone ansamycin antibiotic isolated from Streptomyces hygroscopicus. It is a potent antitumor metabolite 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-1α, 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.

Updated: 20 May 2021

© Copyright BioAustralis 2021

Building C, 28-54 Percival Road, Smithfield, NSW 2164, AUSTRALIA

Tel: 61 2 9757 4515 Fax: 61 2 9757 2586 Web: www.bioaustralis.com Email: info@bioaustralis.com