

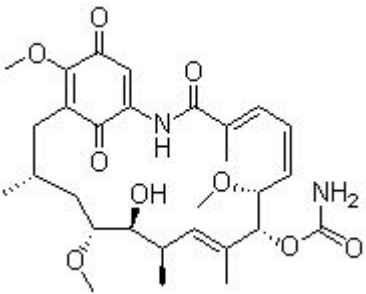


Product Introduction

Geldanamycin

Geldanamycin is a natural existing **HSP90** inhibitor with K_d of 1.2 μM , specifically disrupts glucocorticoid receptor (GR)/HSP association.

Technical Data:

Molecular Weight (MW):	560.64	
Formula:	$\text{C}_{29}\text{H}_{40}\text{N}_2\text{O}_9$	
Solubility (25°C)	DMSO 112 mg/mL	
* <1 mg/ml means slightly soluble or insoluble:	Water <1 mg/mL	
	Ethanol <1 mg/mL	
Purity:	>98%	
Storage:	3 years -20°C Powder 6 months -80°C in DMSO	
CAS No.:	30562-34-6	

Biological Activity

Geldanamycin binds in the ATP-binding site in the N-terminus domain of Hsp90s (residues 1-220). Geldanamycin inhibits the ATPase activity of Hsp90 in a dose-dependent manner. ^[1] Geldanamycin causes a dose-dependent G2 arrest and reversible inhibition of entry into the S phase in A2780 human ovarian cell line. This inhibition is accompanied by p53 increase and finally demonstrated to be p53 dependent. ^[2] Geldanamycin causes polyubiquitination and proteasomal degradation of the p185 receptor protein-tyrosin kinase and shows a IC_{50} with 70 nM. ^[3, 4] Geldanamycin is a typical anti-tumor reagent, shows a mean GI_{50} with 0.18 μM against the panel of 60 human tumor cell lines. ^[5] Geldanamycin (50 mg/kg) shows 30% inhibition on p185-associated phosphotyrosine levels in FRE/erbB-2 mice. ^[6]

Note: Products protected by valid patents are not offered for sale in countries where the sale of such products constitutes a patent infringement and its liability is at buyer's risk. This item is only for R&D purpose not for commercial business in kilos. Buyers should overview the patent issue in their countries.

References

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