

# Geldanamycin

## Catalog No: tcsc0628



### Available Sizes

**Size:** 5mg

**Size:** 10mg



### Specifications

**CAS No:**

30562-34-6

**Formula:**

$C_{29}H_{40}N_2O_9$

**Pathway:**

Metabolic Enzyme/Protease;Cell Cycle/DNA Damage

**Target:**

HSP;HSP

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 24$  mg/mL (42.81 mM)

**Observed Molecular Weight:**

560.64

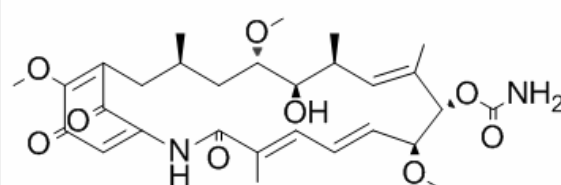
## Product Description

Geldanamycin is a specific inhibitor of interferon regulatory factor 3 (**IRF3**) (by inhibiting **Hsp90** of the IRF3 phosphorylation chaperone, with a  $K_d$  of 1.2  $\mu$ M.).

IC50 & Target: Kd: 1.2  $\mu$ M (Hsp90)<sup>[4]</sup>

**In Vitro:** Geldanamycin significantly delays and reduces viperin expression, indicating that IRF3 is involved in viperin induction in

RAW264.7 cells<sup>[1]</sup>. Geldanamycin (GA), a benzoquinone ansamycin, protected against neuronal injury induced by oxygen-glucose deprivation (OGD)/zVAD treatment in cultured primary neurons. More importantly, Geldanamycin decreases RIP1 protein level in a time and concentration-dependent manner. Geldanamycin also decreases the Hsp90 protein level, which causes instability of RIP1 protein, resulting in decreased RIP1 protein level but not RIP1 mRNA level after Geldanamycin treatment<sup>[2]</sup>. Geldanamycin (GA) is identified as the first natural product inhibitor of Hsp90 that binds to the N-terminal ATPase domain of Hsp90 to inhibit its chaperone function, and significantly induces tumor cell death via an apoptotic mechanism<sup>[3]</sup>.



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