

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 : ≥ 24 mg/mL (42.81 mM)

Observed Molecular Weight:

560.64

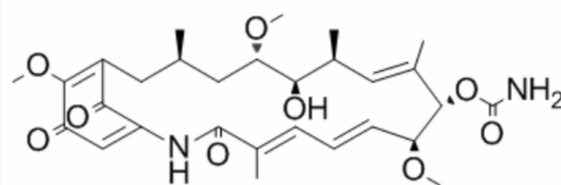
Product Description

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 μ M.).

IC50 & Target: K_d : 1.2 μ M (Hsp90)^[4]

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

RAW264.7 cells^[1]. 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^[2]. 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^[3].



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