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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 $\mathbf{K_d}$ of 1.2 μM.).

IC50 & Target: Kd: 1.2 μM (Hsp90)[4]

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

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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].