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Geldanamycin



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Background

Geldanamycin (GA) is a naturally existing HSP90 inhibitor that belongs to the benzoquinone ansamycin family. GA binds to the amino terminal ATP-binding pocket of HSP90 and inhibits ATP binding and hydrolysis. HSP90 is a chaperone interacting with a wide variety of important target proteins for cell signaling and regulation during tumorgenesis (1,2). The binding of GA to HSP90 interferes with HSP-mediated target protein folding, leading to target aggregation and degradation (1-3). GA and its synthetic derivatives show higher affinity to HSP90 in tumor cells as compared to normal tissues and constitute a class of protential antitumor drugs (2-3).

Purity >99%

CAS 30562-34-6

Solubility Soluble in DMSO at 10mg/ml.

Storage Store lyophilized or in solution at -20°C, desiccated. Protect from light. In lyophilized form, the chemical

is stable for 24 months. Once in solution, use within 1 week to prevent loss of potency. Aliquot to avoid

multiple freeze/thaw cycles.

Directions for Use Geldanamycin is supplied as 600 μg powder. Store at or below -20°C. Before usage, dissolve the

chemical in 1.08 ml DMSO to make 1 mM Geldanamycin. For working concentrations of 300 nM-1 μ M, dilute 1:3000 to 1:1000. Treat cells with the desired concentration for 20-48 hours. Store liquid form at

or below -20°C.

Background References 1. Ochel, H.J. et al. (2001) *Cell Stress Chaperones* 6, 105-112.

2. Sharp, S. and Workman, P. (2006) Adv. Cancer Res. 95, 323-348.

3. Kamal, A. et al. (2003) Nature 425, 407-410.

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