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Geldanamycin

National Cancer Institute

Source

National Cancer Institute. *Geldanamycin*. NCI Thesaurus. Code C1112.

A benzoquinone antineoplastic antibiotic isolated from the bacterium *Streptomyces hygroscopicus*. Geldanamycin binds to and inhibits the cytosolic chaperone functions of heat shock protein 90 (HSP90). HSP90 maintains the stability and functional shape of many oncogenic signaling proteins; the inhibition of HSP90 promotes the proteasomal degradation of oncogenic signaling proteins that may be over-expressed or overactive in tumor cells. (NCI04)