

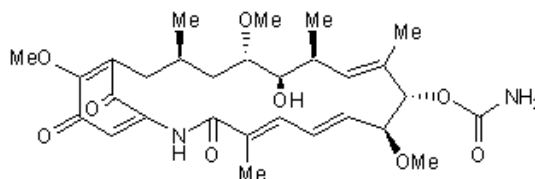
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MATERIAL DATA SHEET**Geldanamycin (HSP90 inhibitor), Synthetic**
Cat. # I-605

Selectively inhibits heat shock protein 90 (HSP90). Binds to the ATP site of HSP90 ($K_d = 1.2 \mu\text{M}$) and inhibits its chaperone activity. Consequently inhibits activities of oncogenic kinases (e.g. src, Raf), p53 and steroid receptors. Demonstrates anti-proliferative effects on breast cancer cells in a dose dependent manner.

Product Information**Quantity:** 100 μg **Formula:** $\text{C}_{29}\text{H}_{40}\text{N}_2\text{O}_9$ **FW:** 550.64**Structure:****Physical/Chemical Characteristics****Solubility:** Provided as a 10 mM stock solution in DMSO**Purity:** >98% by HPLC**Activity:** Depending on cell line, typical EC_{50} values in a 72 hour assay are $\leq 1 \mu\text{M}$.**Use & Storage****Storage:** Store stock solution at -20°C . Avoid multiple freeze/thaw cycles.**Literature**

References: Whitesell, L., *et al.* (1994) *Proc. Natl. Acad. Sci. U.S.A.* **91**: 8324-8328
Cardenas, M.E., *et al.* (1998) *Trends Biotechnol.* **16**: 427-433
Roe, S.M., *et al.* (1999) *J. Med. Chem.* **42**: 260-266
Lee, C.H., *et al.* (2012) *Biochimie.* **94**: 1382-1389

For Laboratory Research Use Only, Not For Use in Humans

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