

Product name: **Geldanamycin**  
Molecular Formula: C<sub>29</sub>H<sub>40</sub>N<sub>2</sub>O<sub>9</sub>  
Molecular weight: 560.6  
CAS-Number: 30562-34-6  
Assay: minimum 90% (HPLC)

Storage: -20°C; Store in Tightly Sealed Vial. Protect from Light.

Literature References:

1. Whitsell, L., et al.; Geldanamycin-Induced Association of Multiple Molecular Chaperone Proteins with Mutant p53 is Altered by Geldanamycin, an hsp90-Binding Agent., 1998., 18(3):, 1517-1524.,
2. Lawson, B., et al.; Geldanamycin, an hsp90/GRP94-Binding Drug, Induces Increased Transcription of Endoplasmic Reticulum (ER) Chaperones Via the ER Stress Pathway., Journal of Cellular Physiology., 1998., 174(2):, 170-178.,
3. Joly, G.A., et al.; Potent Inhibition of Inducible Nitric Oxide Synthase by Geldanamycin, A Tyrosine Kinase Inhibitor, in Endothelial, Smooth Muscle Cells, and in Rat Aorta., FEBS Letters., 1997., 403(1):, 40-44.,
4. Schulte, T.W., et al. Destabilization of Raf-1 by Geldanamycin Leads to Disruption of the Raf-1-MEK-Mitogen-Activated Protein Kinase Signalling Pathway., Molecular and Cellular Biology., 1996., 16(10):, 5839-5845.

Comments:

isolated from marine isolate *Streptomyces sp.* SP 010639;

Biochemical/physiological actions:

Inhibitor of pp60src tyrosine kinase and c-myc gene expression in murine lymphoblastoma cells Binds specifically to the heat shock protein HSP90 and to its endoplasmic reticulum homolog Gp96. Potent inhibitor of the nuclear hormone receptor family.

Chemical Properties: Solvent in DMSO; MeOH

Structure:

