Geldanamycin
An inhibitor of the heat-shock protein Hsp 90
Catalog ant-gl-5, ant-gl-25
For research use only
Version # 16D07-MM

PRODUCT INFORMATION
Content:
Geldanamycin is supplied as a yellow powder. It is available in two pack sizes:
- ant-gl-5: 5 mg
- ant-gl-25: 25 mg

Storage and stability:
- Geldanamycin is shipped at room temperature. Store product at -20 °C. Protect from light. Product in powder form is stable for 6 months when stored properly.
- Once resuspended geldanamycin should be aliquoted and stored at -20 °C. Protect from light. Avoid repeated freeze-thaw cycles. Resuspended product is stable for 3 months when properly stored.

QUALITY CONTROL
• Purity: ≥95% (UHPLC)
• The absence of bacterial contamination (e.g. lipoproteins and endotoxins) is confirmed using HEK-Blue™ TLR2 and HEK-Blue™ TLR4 cells.

DESCRIPTION
Geldanamycin (GA) is a natural product produced by Streptomyces hygroscopicus. InvivoGen produces GA from a mutant strain of S. hygroscopicus, inactivated for the synthesis of nigericin, a common contaminant of GA. GA binds with high affinity into the ATP binding pocket of Hsp90. Hsp90 is a ubiquitous molecular chaperone critical for the folding, assembly and activity of multiple mutated and overexpressed signaling proteins that promote the growth and/or survival of tumor cells. Hsp90 client proteins include mutated p53, Raf-1, Akt, ErbB2 and hypoxia-inducible factor 1a (HIF-1a)\(^1\). Binding of GA to Hsp90 causes the destabilization and degradation of its client proteins\(^2\).


CHEMICAL PROPERTIES
CAS number: 30562-34-6
Formula: C\(_{29}\)H\(_{40}\)N\(_2\)O\(_9\)
Molecular weight: 560
Solubility: DMSO (1 mg/ml)
Working concentration: 1 nM - 10 µM
Structure:

RELATED PRODUCTS

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<thead>
<tr>
<th>Product</th>
<th>Catalog Code</th>
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<tbody>
<tr>
<td>17-AAG (GA analogue)</td>
<td>ant-agl-5</td>
</tr>
<tr>
<td>17-DMAG (water soluble GA analogue)</td>
<td>ant-dgl-5</td>
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<tr>
<td>FITC-Geldanamycin</td>
<td>ant-fgl-1</td>
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</tbody>
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TECHNICAL SUPPORT
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