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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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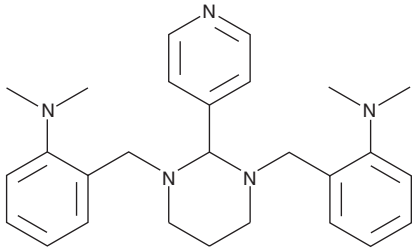
PRODUCT INFORMATION

GANT 61

Item No. 13841

CAS Registry No.: 500579-04-4
Formal Name: 2,2'-[[dihydro-2-(4-pyridinyl)-1,3(2H,4H)-pyrimidinediyl] bis(methylene)]*bis*(N,N-dimethyl-benzenamine)
Synonym: NSC 136476
MF: $C_{27}H_{35}N_5$
FW: 429.6
Purity: ≥98%
UV/Vis.: λ_{max}: 248 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

GANT 61 is supplied as a crystalline solid. A stock solution may be made by dissolving the GANT 61 in the solvent of choice, which should be purged with an inert gas. GANT 61 is soluble in organic solvents such as ethanol and dimethyl formamide. The solubility of GANT 61 in these solvents is approximately 1 mg/ml.

GANT 61 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, GANT 61 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. GANT 61 has a solubility of approximately 0.25 mg/ml in a 1:3 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Hedgehog proteins, important regulators of development, bind the cell-surface protein Patched, allowing activation of Smoothened. In vertebrates, this ultimately leads to the activation of the zinc-finger transcription factors of the Gli family. Overactivation of this pathway contributes to certain cancers, including glioblastoma, for which the Gli proteins are named. GANT 61 is a Gli antagonist, inhibiting Gli1 activation of gene expression with an IC_{50} value of 5 µM.[1] It does not affect signaling through NF-κB, glucocorticoid receptor, MAPK, HGF, C/EBPα, or HIF-1, supporting specificity for the Hedgehog pathway.[1] GANT 61 has been shown to inhibit the *in vitro* proliferation of PANC-1 and 22Rv1 cancer cells, which have elevated Gli1 levels, and prevent the development of 22Rv1 tumors in mice.[1]

Reference

1. Lauth, M., Bergström, Å., Shimokawa, T., *et al.* Inhibition of GLI-mediated transcription and tumor cell growth by small-molecule antagonists. *Proc. Natl. Acad. Sci. USA* **104(20)**, 8455-8460 (2007).

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