

Product Name: GANT 61

Catalog No.: 3191

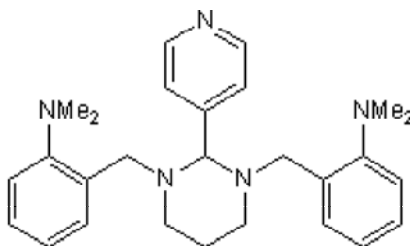
Batch No.: 3

CAS Number: 500579-04-4

IUPAC Name: 2,2'-[[Dihydro-2-(4-pyridinyl)-1,3(2*H*,4*H*)-pyrimidinediyl]bis(methylene)]bis[*N,N*-dimethylbenzenamine]

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₇H₃₅N₅
Batch Molecular Weight: 429.61
Physical Appearance: White solid
Solubility: DMSO to 50 mM
ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.0% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	75.49	8.21	16.3
Found	75.22	8.28	16.22

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

GLI antagonist that inhibits GLI1 and GLI2-induced transcription (IC₅₀ ~ 5 μM). Inhibits the hedgehog (Hh) signaling pathway downstream of SMO and SUFU causing GLI1 nuclear accumulation. Displays antiproliferative and antitumor activity in vivo. Inhibits the pluripotency factors Oct4, Sox-2, Nanog and c-Myc in pancreatic cancer stem cells.

Physical and Chemical Properties:

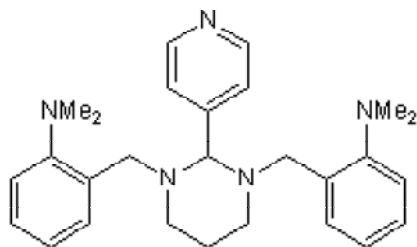
Batch Molecular Formula: C₂₇H₃₅N₅

Batch Molecular Weight: 429.61

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 mM
ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Fu *et al* (2012) GANT-61 inhibits pancreatic cancer stem cell growth in vitro and in NOD/SCID/IL2R gamma null mice xenograft. *Cancer Lett.* **330** 22. PMID: 23200667.

Mazumdar *et al* (2011) Blocking Hedgehog survival signaling at the level of the GLI genes induces DNA damage and extensive cell death in human colon carcinoma cells. *Cancer Res.* **71** 5904. PMID: 21747117.

Lauth *et al* (2007) Inhibition of GLI-mediated transcription and tumor cell growth by small molecule antagonists. *Proc.Natl.Acad.Sci.USA* **104** 8455. PMID: 17494766.

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