Catalog # 10-4524

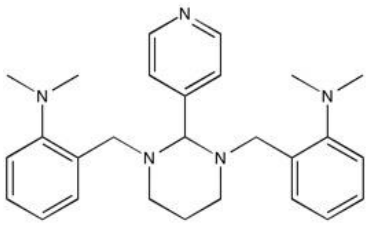
GANT-61

CAS# 500579-04-4

2,2'-[[Dihydro-2(4-pyridinyl)-1,3(2H,4H)pyrimidinediyl]bis(methylene)]bis[N,N-dimethyl-benzenamine]

NSC 136476

Lot # E103923



Inhibits the Hedgehog pathway downstream of SMO and SUFU[1,2]. Inhibits GLI1 and GLI-2 induced transcription and causes GLI1 accumulation in the nucleus. [3] Inhibits pluripotency-maintaining factors Nanog, Oct4, Sox-2 and cMyc and inhibits pancreatic cancer stem cell growth in various models.[4]

1) Hyman *et al.* (2009), *Small-molecule inhibitors reveal multiple strategies for hedgehog pathway blockade*; Proc. Natl. Acad. Sci. USA **106** 14132
2) Mahindroo *et al*. (2010), *Amide conjugates of ketoprofen and indole as inhibitors of Gil-1-mediated transcription in the Hedgehog pathway*; Bioorg. Med. Chem. **18** 4801
3) Mazumdar *et al*. (2011), *Blocking Hedgehog survival signaling at the level of GLI genes induces DNA damage and extensive cell death in human colon carcinoma cells*; Cancer Res., **71** 5904
4) Fu *et al*. (2013), *GANT-61 g inhibits pancreatic cancer stem cell growth in vitro and in NOD/SCID/IL2R gamma null mice xenograft*; Cancer Lett., **330** 22

PHYSICAL DATA

Molecular Weight:	429.60
Molecular Formula:	$C_{27}H_{35}N_5$
Purity:	99% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 20 mg/ml)
Physical Description:	White or off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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