Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

GANT 61

Catalog No: tcsc1528

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Specifications

CAS No:
500579-04-4

Formula:
$C_{27}H_{35}N_5$

Pathway:
Autophagy;Stem Cell/Wnt

Target:
Autophagy;Gli

Purity / Grade:
>98%

Solubility:
DMSO : 17.6 mg/mL (40.97 mM; Need ultrasonic and warming)

Alternative Names:
NSC 136476

Observed Molecular Weight:
429.6

Product Description

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GANT 61 is an inhibitor of **Gli1** and **Gli2** targeting the Hedgehog/GLI pathway.

IC50 & Target: Gli1/2[1]

In Vitro: GANT61 (20 μM) induces greater cell death than targeting Smo (cyclopamine). GANT61 (0, 5, 10, 20 μM) inhibits clonogenic survival of human colon carcinoma cell lines. GANT61 (20 μM, 0-72 hr) down-regulates Gli1 and Gli2 expression in HT29 cells. GANT61 (0, 10 μM or 20 μM) differentially regulates genes involved in the balance between cell death and cell survival[1]. GANT-61 inhibits cell viability and induces apoptosis in pancreatic CSCs. GANT-61 inhibits expression of downstream targets of Shh pathway, decreases Gli-DNA interaction, Gli transcriptional activity and Gli nuclear translocation in pancreatic CSCs. GANT-61 differentially regulates genes involved in cell survival, cell death and pluripotency. GANT-61 inhibits motility, invasion and migration of CSCs[2]. GANT61 sensitivity positively correlates to GLI1 and negatively to MYCN expression in the neuroblastoma cell lines tested. GANT61 downregulates GLI1, c-MYC, MYCN and Cyclin D1 expression and induces apoptosis of neuroblastoma cells[3].

In Vivo: GANT-61 (40 mg/kg, i.p., three days per week) inhibits CSC tumor growth in NOD/SCID IL2Rγ null mice[2]. GANT61 (50 mg/kg, p.o.) enhances the effects of chemotherapeutic drugs used in the treatment of neuroblastoma in an additive or synergistic manner and reduces the growth of established neuroblastoma xenografts in nude mice[3].