For Research Use Only

GANT 58

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Catalog Number: CM04229

产品信息

Catalog Number:
CM04229

CAS号:
64048-12-0

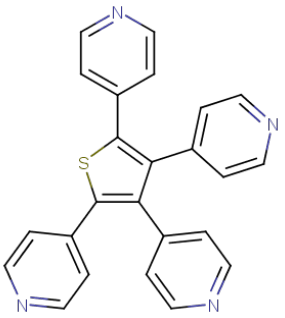
分子式:
$C_{24}H_{16}N_4S$

主要靶点:
Hedgehog/Smoothened

主要通路:
G蛋白偶联受体|干细胞

分子量:
392.48

溶解度:
DMSO:9.09 mg/mL (23.16 mM),Sonification is recommended.



靶点活性

Gli:5 μM

体外活性

GANT58 is a downstream inhibitor of Hh signaling and it also is an indeed inhibitor of Hh signaling downstream of Smo and Sufu. GANT58 potently inhibits in vitro tumor cell proliferation in a GLI-dependent manner and successfully blocks cell growth using human prostate cancer cells harboring downstream activation of the Hh pathway[1]. GANT58 has been shown to inhibit transcriptional activation by GLI1 (as well as by the other GLI species) and it has been shown to inhibit GLI transactivation[2]. GANT58 mainly acts at the nuclear level because transcription induced by GLI1 with a mutated nuclear export signal is still blocked.

体内活性

Nude mice are treated with every second-day s.c. injections at a concentration of 50 mg/kg of cyclopamine, GANT61, GANT58, or solvent only (n=4-5 for each group). Although mice treated with these compounds showed no such signs of toxicity, this protocol is also introduced for the GANTs to be able to compare all compounds. All injections are done 2-3 cm away from the tumors. Suppression of tumor cell growth is observed for all compounds, during an 18-day treatment period. Treatment with cyclopamine or GANT58 results in the inhibition of additional xenograft growth and limited the increase in tumor size[1].

描述

GANT 58 is a potent antagonist of Gli. Which inhibits GLI1-induced transcription (IC50: 5 μM).

储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years