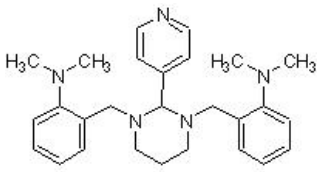
abcam

Product datasheet

GANT 61, GLI1 and 2 inhibitor ab120904

6 References 2 Images

Overview

Product name	GANT 61, GLI1 and 2 inhibitor
Description	Selective GLI1 and 2 inhibitor
Biological description	Selective GLI1 and 2 inhibitor (IC_{50} = 5 µM). Blocks the hedgehog/smoothened signaling pathway. Anticancer activity *in vitro* and *in vivo*.
Purity	> 98%
CAS Number	500579-04-4
Chemical structure	

Properties

Chemical name	2,2'-[[Dihydro-2-(4-pyridinyl)-1,3(2*H*,4*H*)-pyrimidinediyl]bis(methylene)]bis(*N*,*N*-dimethylbenzenamine)
Molecular weight	429.61
Molecular formula	$C_{27}H_{35}N_5$
Storage instructions	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO to 50 mM and in ethanol to 100 mM
Handling	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour. Need more advice on solubility, usage and handling? Please visit our **frequently asked questions (FAQ) page** for more details.
SMILES	CN(C)C1=CC=CC=C1CN2CCCN(CC3=CC=CC=C3N(C)C)C2C4=CC=NC=C4
Source	Synthetic

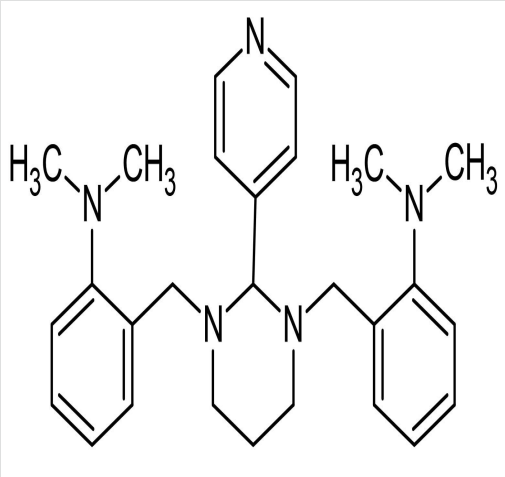
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab120904 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

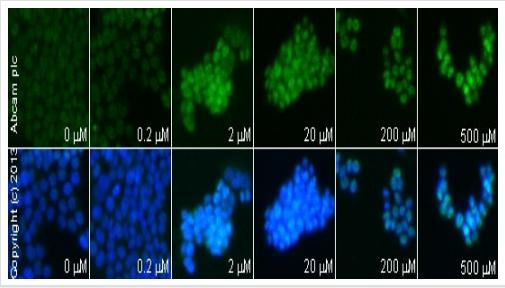
Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



Chemical Structure - GANT 61, GLI1 and 2 inhibitor (ab120904)

2D chemical structure image of ab120904, GANT 61, GLI1 and 2 inhibitor



Functional Studies - GANT 61, GLI1 and 2 inhibitor (ab120904)

ab11169 staining MDC1 in HCT116 cells treated with GANT 61 (ab120904), by ICC/IF. Increase in MDC1 expression correlates with increased concentration of GANT 61, as described in literature. The cells were incubated at 37°C for 4 hours in media containing different concentrations of ab120904 (GANT 61) in DMSO, fixed with 100% methanol for 5 minutes at -20°C and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with **ab11169** (1/200 dilution) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-rabbit polyclonal antibody (**ab96899**) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.

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