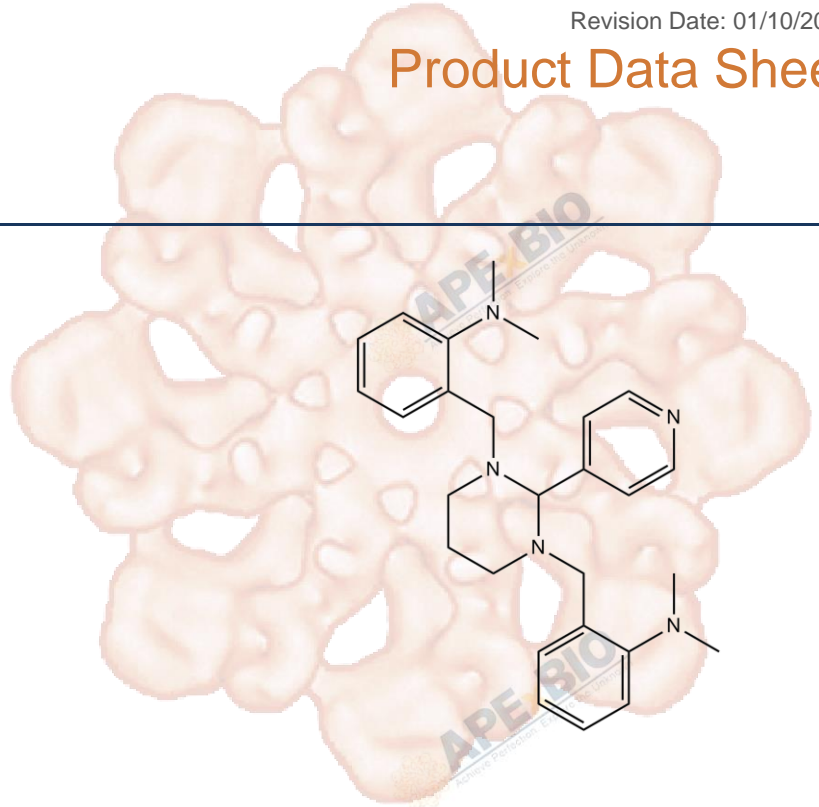


Product Data Sheet

GANT61

Cat. No.:	A1615
CAS No.:	500579-04-4
Formula:	C27H35N5
M.Wt:	429.6
Synonyms:	
Target:	Stem Cell
Pathway:	Hedgehog
Storage:	Store at -20°C



Solvent & Solubility

insoluble in DMSO; insoluble in H₂O; ≥9.95 mg/mL in EtOH

In Vitro

Preparing Stock Solutions	Solvent Concentration	Mass		
		1mg	5mg	10mg
	1 mM	2.3277 mL	11.6387 mL	23.2775 mL
	5 mM	0.4655 mL	2.3277 mL	4.6555 mL
	10 mM	0.2328 mL	1.1639 mL	2.3277 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary

GLI antagonist

IC₅₀ & Target

5 μM (GLI)

In Vitro

Cell Viability Assay

Cell Line: 22Rv1 and PANC1 cells

Preparation method: The solubility of this compound in DMSO is limited. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -

		20 °C for several months.
	Reacting conditions:	5 µM; 48 hrs
	Applications:	The expressions of GLI1 and PTCH were reduced in 22Rv1 or PANC1 cells incubated with 5 µM GANT61 for 48 hrs. GANT61 efficiently inhibited tumor cell proliferation in vitro.
In Vivo	Animal experiment	
	Animal models:	Nude mice injected s.c. with GLI1-positive 22Rv1 prostate cancer cells
	Dosage form:	50 mg/kg; s.c.; for 18 days
	Applications:	In nude mice injected s.c. with GLI1-positive 22Rv1 prostate cancer cells, GANT61 significantly inhibited tumor growth. During the 18-day treatment period, GANT61 showed no adverse side effects, such as weight loss, ulcerations, or general non-wellbeing of the animals.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

1. Fan SM, Chang YT, et al. "External light activates hair follicle stem cells through eyes via an ipRGC-SCN-sympathetic neural pathway." Proc Natl Acad Sci U S A. 2018 Jul 17;115(29):E6880-E6889.PMID:29959210

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References

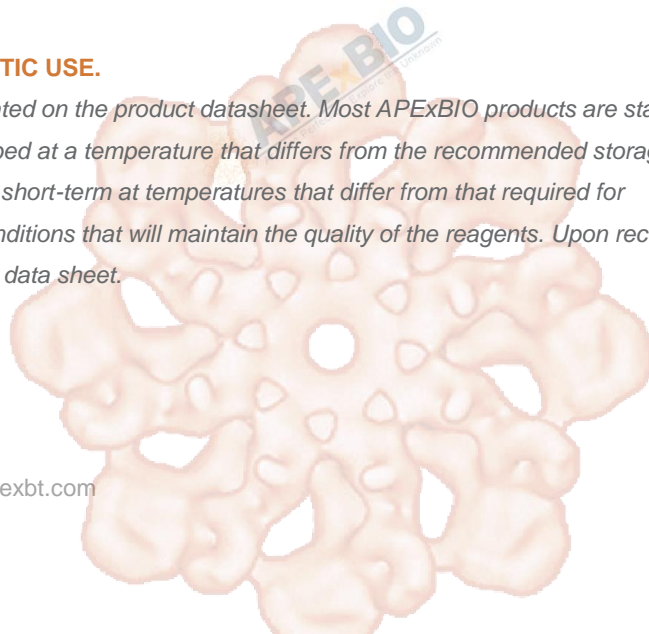
[1]. Lauth M, Bergstrm A, Shimokawa T, Toftgrd R. Inhibition of GLI-mediated transcription and tumor cell growth by small-molecule antagonists. Proc Natl Acad Sci U S A. 2007 May 15;104(20):8455-60.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.



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