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DATASHEET

GANT 58

Product overview

Name	GANT 58
Cat No	HB3313
Biological action	Antagonist
Purity	>99%
Description	GLI1 antagonist. Hedgehog signaling inhibitor.

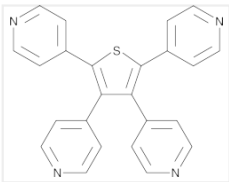
Biological Data

Biological description	GLI1 antagonist. Hedgehog (Hh) signaling inhibitor ($IC_{50} = 5 \mu M$ for inhibition of Hh signaling downstream of Smo and Sufu at the level of Gli). Induces apoptosis.
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Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in DMSO (25mM) or ethanol (25mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	2,3,4,5-Tetra(4-pyridyl)thiophene
Molecular Weight	392.48
Chemical structure	
Molecular Formula	$C_{24}H_{16}N_4S$
CAS Number	64048-12-0
PubChem identifier	253078
SMILES	<chem>C1(C5=CC=NC=C5)=C(C3=CC=NC=C3)C(C2=CC=NC=C2)=C(C4=CC=NC=C4)S1</chem>
InChIKey	USWLOKMMUTWFMD-UHFFFAOYSA-N

References

Small-molecule modulators of the Sonic Hedgehog signaling pathway.

Stanton and Peng (2010) Mol Biosyst 6(1)

PubMedID [20024066](#)

Inhibition of GLI-mediated transcription and tumor cell growth by small-molecule antagonists.

Lauth et al (2007) Proc Natl Acad Sci U S A 104(20)

PubMedID 17494766

Inhibition of hedgehog signaling by GANT58 induces apoptosis and shows synergistic antitumor activity with AKT inhibitor in acute T cell leukemia cells.

Hou et al (50-9) Biochimie 2014

PubMedID 24394624
