

Certificate of Analysis

Print Date: Jan 15th 2016

www.tocris.com

Product Name: GANT 58 Catalog No.: 3889 Batch No.: 1

CAS Number: 64048-12-0

IUPAC Name: 2,3,4,5-Tetra(4-pyridyl)thiophene

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{24}H_{16}N_4S.\frac{1}{2}H_2O$

Batch Molecular Weight: 401.49
Physical Appearance: Yellow solid

Solubility: DMSO to 25 mM

ethanol to 25 mM

Storage: Store at +4°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 100% purity

¹H NMR: Consistent with structure Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 71.8 4.27 13.95 Found 71.87 4.19 14.01



Product Information

Print Date: Jan 15th 2016

www.tocris.com

Product Name: GANT 58 Catalog No.: 3889 Batch No.: 1

CAS Number: 64048-12-0

IUPAC Name: 2,3,4,5-Tetra(4-pyridyl)thiophene

Description:

GLI antagonist that inhibits GLI1-induced transcription (IC $_{50}$ = 5 μ M). Inhibits the hedgehog (Hh) signaling pathway downstream of SMO and SUFU causing GLI1 nuclear accumulation. Displays antiproliferative and antitumor activity in vivo.

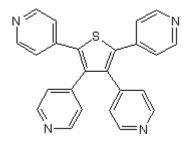
Physical and Chemical Properties:

Batch Molecular Formula: C₂₄H₁₆N₄S.½H₂O

Batch Molecular Weight: 401.49 Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 25 mM ethanol to 25 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Lauth et al (2007) Inhibition of GLI-mediated transcription and tumor cell growth by small-molecule antagonists. Proc.Natl.Acad.Sci. 104 8455. PMID: 17494766.

Beauchamp *et al* (2009) GLI1 is a direct transcriptional target of EWS-FLI1 oncoprotein. J.Biol.Chem. **284** 9074. PMID: 19189974. **Joo** *et al* (2009) GLI1 is a central mediator of EWS/FLI1 signaling in Ewing tumors. PLoS ONE **4** 7608. PMID: 19859563.