

GANT58

ALTERNATE NAME: 2,3,4,5-Tetra(4-pyridyl)thiophene; NSC75503

CATALOG #: 1812-5, 25

AMOUNT: 5 mg, 25 mg

STRUCTURE:



MOLECULAR FORMULA: C₂₄H₁₆N₄S

MOLECULAR WEIGHT: 392.48

CAS NUMBER: 64048-12-0

APPEARANCE: Yellow solid

SOLUBILITY: DMSO (25 mM) or Ethanol (25 mM)

PURITY: ≥98% by HPLC

STORAGE: Store at -20 °C

DESCRIPTION: Cell-permeable. Acts as a blocker of Hedgehog (Hh) pathway downstream of SMO and SUFU causing Gli1 nuclear accumulation. It also targets Gli-mediated gene transactivation (IC₅₀ ~ 5 μM in SAG-stimulated Shh-L2 cells) and displays anti-proliferative and antitumor activity *in vivo*.

REFERENCE: Stanton, B.Z., and Peng, L.F. (2010). *Mol. Biosyst.* **6**, 44-54; Lauth, M., et al. (2007). *Proc. Natl. Acad. Sci. USA* **104**, 8455-8460.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

FOR RESEARCH USE ONLY! Not to be used on humans.

RELATED PRODUCTS:

- Cyclopamine (**Cat. No. 1578-5**)
- Hh Signaling Pathway Antagonist (**Cat. No. 1659-1**)
- JK184 (**Cat. No. 1726-1**)
- Purmorphamine (**Cat. No. 1672-5**)