**SANT-1**

**ALTERNATE NAME:** N-[(3,5-dimethyl-1-phenyl-1H-pyrazol-4-yl)methylene]-4-(phenylmethyl)-1-piperazinamine

**CATALOG #:** 1978-1, 5

**AMOUNT:** 1 mg, 5 mg

**STRUCTURE:**

![Structure Image]

**MOLECULAR FORMULA:** C_{23}H_{27}N_{5}

**MOLECULAR WEIGHT:** 373.49

**CAS NUMBER:** 304909-07-7

**APPEARANCE:** Pale yellow solid

**SOLUBILITY:** DMSO (~50 mM) or EtOH (~25 mM)

**PURITY:** ≥98% by HPLC

**STORAGE:** Store at -20 °C. Protect from air and light.

**DESCRIPTION:** Cell-permeable. A potent inhibitor of Sonic hedgehog (Shh) signaling; high affinity antagonist of smoothened activity (Kd = 1.2 nM). Inhibits smoothened agonist effects with an IC_{50} of 20 nM in Shh-LIGHT2 cells. SANT-1 inhibits both wild type and oncogenic Smo with equal potency.


**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)
- Cyclopamine-KAAD (Cat. No. 1910-50)
- GANT58 (Cat. No. 1812-5, 25)
- GANT61 (Cat. No. 1892-5)
- GDC-0449 (Cat. No. 1890-5, 25)
- Hh Signaling Pathway Antagonist (Cat. No. 1659-1)
- DiscoveryPak™ hedgehog Signaling Pathway Antagonists Set (Cat. No. K868-6)
- JK-184 (Cat. No. 1726-1)
- Purmorphamine (Cat. No. 1672-5)
- Robotnikinin (Cat. No. 1923-1)
- SANT-2 (Cat. No. 1976-1, 5)
- Sonic Hedgehog, human recombinant (Cat. No. 4010-25, 100, 1000)
- Sonic Hedgehog, human recombinant (Cat. No. 4020-25, 100, 1000)
- Tomatidine hydrochloride (Cat. No. 1893-25)