

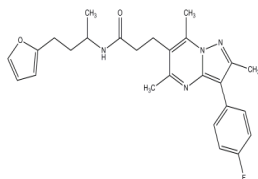
## Smo Antagonist, SA1

**ALTERNATE NAME:** 3-(3-(4-Fluorophenyl)-2,5,7-trimethylpyrazolo[1,5a]pyrimidin-6-yl)-N-(4-(furan-2-yl)butan-2-yl)propanamide

**CATALOG #:** 2154-2, 5

**AMOUNT:** 2 mg, 5 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>26</sub>H<sub>29</sub>FN<sub>4</sub>O<sub>2</sub>

**MOLECULAR WEIGHT:** 448.53

**CAS NUMBER:** N/A

**APPEARANCE:** Crystalline solid

**SOLUBILITY:** DMSO

**PURITY:** ≥95% by NMR

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

**DESCRIPTION:** A Smoothened (Smo) antagonist. SA1 inhibits Hh pathway by interacting directly with Smo. Inhibits SAG (Smoothened agonist) activation of Hh signaling in Shh-LIGHT 2 cells (IC<sub>50</sub> = 3.1 μM). Also inhibits the localization of Smo to cilia. Treatment of Ptch1<sup>-/-</sup> MEFs with SA1 suppresses the β-galactosidase activity (IC<sub>50</sub> = 3.8 μM) and inhibits the expression of *Gli1* and *Ptch1* in ASZ1 cells.

**REFERENCE:** Wu, V.M., *et al.* (2012). *Proc. Natl. Acad. Sci. USA* **109**, 13644-13649.

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

### 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)

Itraconazole (Cat. No. 1987-50, 100, 500, 1000)

JK-184 (Cat. No. 1726-1)

Purmorphamine (Cat. No. 1672-5)

Robotnikinin (Cat. No. 1923-1)

SANT-1 (Cat. No. 1978-1,5)

SANT-2 (Cat. No. 1976-1, 5)

Smo Antagonist, SA9 (Cat. No. 2155-2, 5)

Smo Antagonist, SA9 (Cat. No. 2159-2, 5)

Sonic Hedgehog, human recombinant (Cat. No. 4010-25, 100, 1000)

Sonic Hedgehog, murine recombinant (Cat. No. 4020-25, 100, 1000)

Tomatidine hydrochloride (Cat. No. 1893-25)

**FOR RESEARCH USE ONLY! Not to be used in humans.**