Cat No. 52-A47

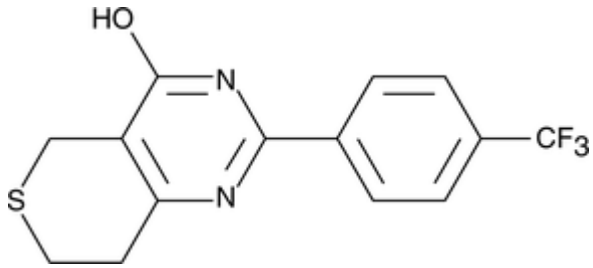
XAV939

5mg

For research purposes only

XAV939 is a cell permeable, small molecule inhibitor of the Wnt/β– catenin pathway. It inhibits tankyrase 1 (IC_{50}= 11nM)and tankyrase 2 (IC_{50}=4nM), stabilizes axin and stimulates β-catenin degradation. Deregulated Wnt/β-catenin pathway activity has been implicated in many cancers. Small molecule XAV939 has also been shown to inhibit proliferation of the μ-catenin-dependent colon carcinoma cell line DLD-1.

TECHNICAL INFORMATION



Other Names: 3,5,7,8-tetrahydro-2-[4-(trifluoromethyl) phenyl]-4H-thiopyrano[4,3-d]pyrimidin-4-one

Chemical Formula: $C_{14}H_{11}F_3N_2OS$

CAS Number: 284028-89-3

Molecular Weight: 312.3

Purity: >98%

Appearance: Crystalline solid

Solubility: DMSO

STORAGE AND HANDLING

Storage: Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

Stability: Stock solutions stable at -20°C for up to 2 years.

Shipping Conditions: Shipped at room temperature.

PRODUCT USE

Soluble in DMSO (50mM). For most cells, the maximum tolerance to DMSO is <0.5%.

REFERENCES

1. Huang et al. (2009) Tankyrase inhibition stabilizes axin and antagonizes Wnt signaling. Nature. 461(7264): 614 -20.
2. Wang et al. (2011) Cardiac induction of embryonic stem cells by a small molecule inhibitor of Wnt/β-catenin signaling. ACS Chem Bio. 6(2):192-7.
3. Karlberg et al. (2010) Structural basis for the interaction between tankyrase-2 and a potent Wnt-signaling inhibitor. J Med Chem. 53(14)5352-5.