

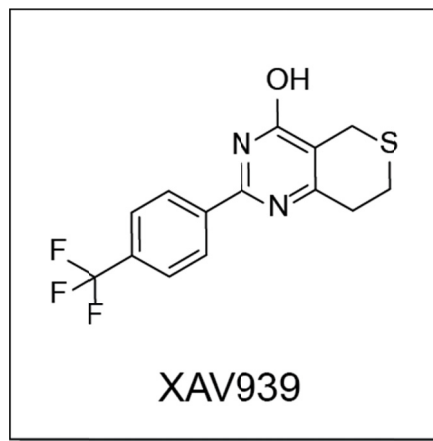


## Product Specification Sheet

**Product Name:** XAV939  
**Catalog Number:** C9289-2 (powder)  
C9289-2s (10 mM in DMSO)  
**Package Size:** 2 mg

### Technical information:

**Chemical Formula:** C<sub>14</sub>H<sub>11</sub>F<sub>3</sub>N<sub>2</sub>OS  
**CAS #:** 284028-89-3  
**Molecular Weight:** 312.31  
**Purity:** >98%  
**Formulation:** White powder  
**Solubility:** Soluble in DMSO up to 50 mM  
**Chemical Name:** 2-(4-(trifluoromethyl)phenyl)-7,8-dihydro-5H-thiopyrano[4,3-d]pyrimidin-4-ol  
**Storage:** Store solid powder at 4°C desiccated;  
Store DMSO solution at -20°C.



- Handling:**
- For C9289-2 (powder), add 640  $\mu$ L of DMSO to make 10 mM solution.
  - For C9289-2s, before open the vial, centrifuge the vial at 500rpm x 1 min in a 50 mL conical tube to ensure full recovery of sample.

**Biological Activity:** XAV939 is a small molecule which selectively inhibits  $\beta$ -catenin-mediated transcription. It stimulates  $\beta$ -catenin degradation by stabilizing axin, the concentration-limiting component of the destruction complex. Using a quantitative chemical proteomic approach, XAV939 was found to stabilize axin by inhibiting the poly-ADP-ribosylating enzymes tankyrase 1 and tankyrase 2 with IC<sub>50</sub> of 11 nM and 4 nM

**Reference:** 1. Tankyrase inhibition stabilizes axin and antagonizes Wnt signaling; Shih-Min A. Huang et al. Nature (2009) 461, 614-620

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