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### Print Date: May 17th 2024

## **Certificate of Analysis**

## www.tocris.com

Batch No.: 7

Catalog No.: 3748

## Product Name: XAV 939

CAS Number: 284028-89-3

IUPAC Name: 3,5,7,8-Tetrahydro-2-[4-(trifluoromethyl)phenyl]-4*H*-thiopyrano[4,3-*d*]pyrimidin-4-one

## 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure: C<sub>14</sub>H<sub>11</sub>F<sub>3</sub>N<sub>2</sub>OS 312.31 White solid DMSO to 20 mM Store at RT

HΩ CF<sub>3</sub>

2. ANALYTICAL DATA

HPLC: <sup>1</sup>H NMR: Mass Spectrum: Microanalysis: Shows 98.7% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 53.84 3.55 8.97 Found 53.73 3.67 8.92

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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## **Product Information**

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IUPAC Name:

3,5,7,8-Tetrahydro-2-[4-(trifluoromethyl)phenyl]-4H-thiopyrano[4,3-d]pyrimidin-4-one

### **Description:**

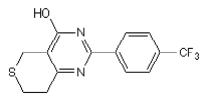
XAV 939 is a potent tankyrase (TNKS) inhibitor (IC<sub>50</sub> values are 4 and 11 nM for TNKS2 and TNKS1 respectively). Antagonizes Wnt signaling via stimulation of  $\beta$ -catenin degradation and stabilization of axin. XAV 939 inhibits proliferation of the  $\beta$ -catenin-dependent colon carcinoma cell line DLD-1. Promotes cardiomyocyte differentiation in mesoderm progenitor cells. Also used in neuronal differentiation protocols. XAV 939 synthesized to cGMP guidelines also available. For more information about how XAV 939 may be used, see our protocol: Accelerated Induction of Cortical Neurons from hiPSCs Please see product specific page on www.tocris.com for full description.

### **Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>14</sub>H<sub>11</sub>F<sub>3</sub>N<sub>2</sub>OS Batch Molecular Weight: 312.31 Physical Appearance: White solid

Minimum Purity: ≥98%

**Batch Molecular Structure:** 



### **References:**

**Wang** *et al* (2010) Cardiac induction of embryonic stem cells by a small molecule inhibitor of Wnt/ $\beta$ -catenin signaling. ACS Chem. Biol. **6** 192. PMID: 21077691.

Adler (2009) Inhibiting wnt signaling. Sci.Signal. 91.

Huang et al (2009) Tankyrase inhibition stabilizes axin and antagonizes wnt signalling. Nature 461 614. PMID: 19759537.

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#### Storage: Store at RT

Solubility & Usage Info: DMSO to 20 mM

#### Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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7