

Product Name: XAV 939

Catalog No.: 3748

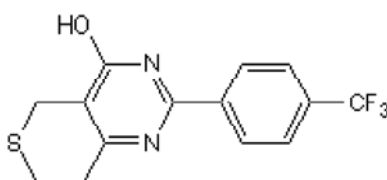
Batch No.: 7

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: C₁₄H₁₁F₃N₂OS
Batch Molecular Weight: 312.31
Physical Appearance: White solid
Solubility: DMSO to 20 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	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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Description:

XAV 939 is a potent tankyrase (TNKS) inhibitor (IC₅₀ values are 4 and 11 nM for TNKS2 and TNKS1 respectively). Antagonizes Wnt signaling via stimulation of β-catenin degradation and stabilization of axin. Inhibits proliferation of the β-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.

Physical and Chemical Properties:

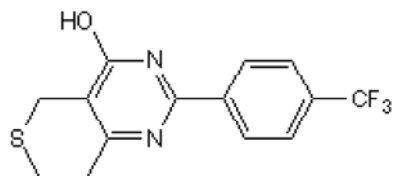
Batch Molecular Formula: C₁₄H₁₁F₃N₂OS

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/β-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.

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. Our standard recommendations are:

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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