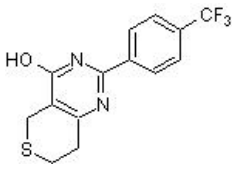
abcam

# Product datasheet

# XAV939, Tankyrase inhibitor ab120897

3 References 2 Images

## Overview

| | |
|---|---|
| **Product name** | XAV939, Tankyrase inhibitor |
| **Description** | Potent tankyrase inhibitor. Inhibitor of Wnt/β-catenin signaling. |
| **Biological description** | Potent tankyrase (TNKS) inhibitor. Inhibitor of Wnt/β-catenin signaling. ($IC_{50}$ values are 11 and 4 nM for TNKS1 and 2, respectively). Inhibits TNKS PARP activity. Selectivity over other PARP enzymes and CRE, NK-κB and TGF-β. |
| **Purity** | > 98% |
| **CAS Number** | 284028-89-3 |
| **Chemical structure** |  |

## Properties

| | |
|---|---|
| **Chemical name** | 3,5,7,8-Tetrahydro-2-[4-(trifluoromethyl)phenyl]-4*H*-thiopyrano[4,3-*d*]pyrimidin-4-one |
| **Molecular weight** | 312.31 |
| **Molecular formula** | $C_{14}H_{11}F_3N_2OS$ |
| **Storage instructions** | Store at Room Temperature. The product can be stored for up to 12 months. |
| **Solubility overview** | Soluble in DMSO to 25 mM |
| **Handling** | Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.<br>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details. |
| **SMILES** | OC1=NC(C2=CC=C(C(F)(F)F)C=C2)=NC3=C1CSCC3 |
| **Source** | Synthetic |

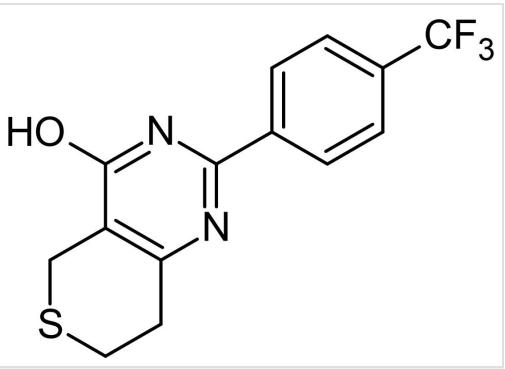
## Applications

**The Abpromise guarantee** Our Abpromise guarantee covers the use of ab120897 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

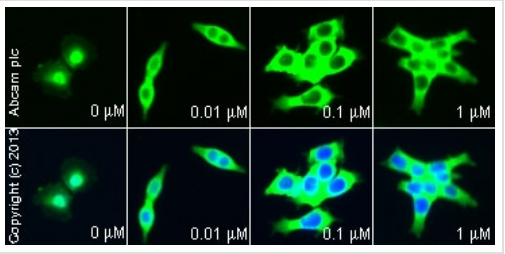
| Application | Abreviews | Notes |
|---|---|---|
| **Functional Studies** | | Use at an assay dependent concentration. |

## Images




Chemical Structure - XAV939, Tankyrase inhibitor (ab120897)

2D chemical structure image of ab120897, XAV939, Tankyrase inhibitor




Functional Studies - XAV939, Tankyrase inhibitor (ab120897)

ab16051 staining ß-catenin in SW480 cells treated with XAV939 (ab120897), by ICC/IF. Increase of ß-catenin cytoplasmic expression and decrease in nuclear expression correlates with increased concentration of XAV939, as described in literature. The cells were incubated at 37°C for 6 hours in media containing different concentrations of ab120897 (XAV939) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with ab16051 (1 µg/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 anti-rabbit polyclonal antibody (ab96899) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.



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