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DATASHEET

XAV 939

Product overview

Name	XAV 939
Cat No	HB0660
Biological action	Inhibitor
Purity	>98%
Description	Potent tankyrase inhibitor. Wnt/ β -catenin signaling inhibitor.

Images



Biological Data

Biological description	XAV 939 is a potent tankyrase (TNKS) inhibitor (IC_{50} values are 4 and 11 nM at TNKS2 and TNKS1 respectively). Recently it has been indicated that XAV 939 also inhibits multiple PARP family proteins.
	XAV 939 antagonizes Wnt signaling by stabilizing axin to stimulate β -catenin degradation.
	XAV 939 also displays antiproliferative and apoptotic inducing properties.
	XAV 939 robustly induces cardiomyogenesis in mouse embryonic stem (ES) cells.

Solubility & Handling

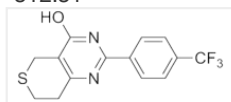
Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (20mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

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

312.31



Molecular Formula
CAS Number
PubChem identifier
SMILES
Source
InChi

C₁₄H₁₁F₃N₂OS
284028-89-3
2726824
C1CSCC2=C1NC(=NC2=O)C3=CC=C(C=C3)C(F)(F)F
Synthetic
InChI=1S/C14H11F3N2OS/c15-14(16,17)9-3-1-8(2-4-9)12-18-11-5-6-21-7-10(11)13(20)19-12/h1-4
H,5-7H2,(H,18,19,20)
KLGQSVMIPOVQAX-UHFFFAOYSA-N
MFCD16879017

References

XAV939 inhibits the stemness and migration of neuroblastoma cancer stem cells via repression of tankyrase 1.

Tian X *et al* (2014) Int J Oncol 45(1)

PubMedID [24789807](#)

Modelling of a targeted nanotherapeutic 'stroma' to deliver the cytokine LIF, or XAV939, a potent inhibitor of Wnt-β-catenin signalling, for use in human fetal dopaminergic grafts in Parkinson's disease.

Zhao JW *et al* (2014) Dis Model Mech 7(10)

PubMedID [25085990](#)

Structure of human tankyrase 1 in complex with small-molecule inhibitors PJ34 and XAV939.

Kirby CA *et al* (2012) Acta Crystallogr Sect F Struct Biol Cryst Commun 68(Pt 2)

PubMedID [22297980](#)

XAV939, a tankyrase 1 inhibitor, promotes cell apoptosis in neuroblastoma cell lines by inhibiting Wnt/β-catenin signaling pathway.

Tian XH *et al* (2013) J Exp Clin Cancer Res 32

PubMedID [24308762](#)
