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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.

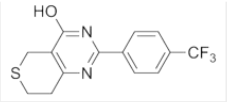
XAV 939 robustly induces cardiomyogenesis in mouse embryonic stem (ES) cells.

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]-4*H*-thiopyrano[4,3-*d*]pyrimidin-4-one
Molecular Weight	312.31
Chemical structure	



Molecular Formula	$C_{14}H_{11}F_3N_2OS$
CAS Number	284028-89-3
PubChem identifier	2726824
SMILES	C1CSCC2=C1NC(=NC2=O)C3=CC=C(C=C3)C(F)(F)F
Source	Synthetic
InChi	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/h1-4H,5-7H2,(H,18,19,20)
InChiKey	KLGQSVMIPOVQAX-UHFFFAOYSA-N
MDL number	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 inhibitior, 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