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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

Solubility overview Storage instructions Storage of solutions

Shipping Conditions

Important

Soluble in DMSO (20mM) Room temperature

noom temperature

Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Stable for ambient temperature shipping. Follow storage instructions on receipt.

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

Molecular Weight 312.31

Chemical structure

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/h1-4

H,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