Technical Data Sheet

XAV939

Catalog Number :2848932

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Synonyms: XAV-939, CHEMBL1086580,3,5,7,8-Tetrahydro-2-[4-(trifluoromethyl)phenyl]-4H-thiopyrano[4,3-d]pyrimidin-4-one

Chemical Name: 2-[4-(trifluoromethyl)phenyl]-1,5,7,8-tetrahydrothiopyrano[4,3-d]pyrimidin-4-one

Molecular Formula: $C_{14}H_{11}F_3N_2OS$

Molecular Weight: 312.3

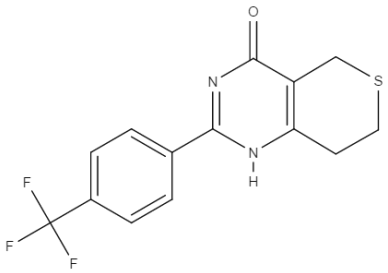
CAS Number: 284028-89-3

Purity: ≥98%

Applications: FA

Formulation: Crystalline solid

Storage: Product should be kept at -20°C.



Description

XAV939 is a potent inhibitor of TNKS 1 and 2, which promotes the degradation of Beta-catenin and increases the protein levels of the axin-GSK3Beta complex. It is reported to promote cardiomyogenic development in progenitor cells, inhibits the proliferation of certain carcinoma cell lines, and enhances the induction of cortical interneurons from embryonic stem cells.

Preparation & Storage

Soluble in organic solvents such as DMF or DMSO. DMF up to 5mg/ml.

References

1.Maroof, A. M., Keros, S., Tyson, J. A., Ying, S. W., Ganat, Y. M., Merkle, F. T., ... Studer, L. (2013). Directed differentiation and functional maturation of cortical interneurons from human embryonic stem cells.;Cell stem cell,;12(5), 559-572.

2. Tian, X. H., Hou, W. J., Fang, Y., Fan, J., Tong, H., Bai, S. L., ... Li, Y. (2013). XAV939, a tankyrase 1 inhibitior, promotes cell apoptosis in neuroblastoma cell lines by inhibiting Wnt/β-catenin signaling pathway.;J Exp Clin Cancer Res,;32(100), 9966-32.

3. Liu, C., He, X. (2010). Destruction of a destructor: a new avenue for cancer therapeutics targeting the Wnt pathway.;Journal of molecular cell biology,;2(2), 70-73.

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