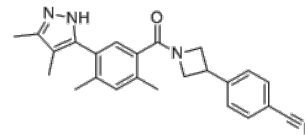


Product Name : TVB-3166
Cat. No. : PC-62734
CAS No. : 1533438-83-3
Molecular Formula : C₂₄H₂₄N₄O
Molecular Weight : 384.483
Target : Fatty Acid Synthase
Solubility : 10 mM in DMSO



Biological Activity

TVB-3166 is an orally-available, reversible, potent, and selective fatty acid synthase (**FASN**) inhibitor with biochemical IC₅₀ of 42 nM.

TVB-3166 inhibits cellular palmitate synthesis with IC₅₀ of 60 nM, inhibits the keto-reductase enzymatic function of FASN. TVB-3166 specifically disrupts lipid raft architecture, inhibits biological pathways such as lipid biosynthesis, PI3K-AKT-mTOR and β-catenin signal transduction, and inhibits expression of oncogenic effectors such as c-Myc in cancer cells. TVB-3166 demonstrates anti-tumor activities in biologically diverse preclinical tumor models.

References

- Ventura R, et al. *EBioMedicine*. 2015 Jul 2;2(8):808-24.
Ohol YM, et al. *PLoS One*. 2015 Dec 11;10(12):e0144648.
Heuer TS, et al. *EBioMedicine*. 2017 Feb;16:51-62.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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