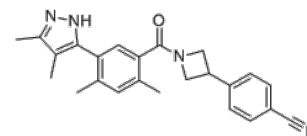


**Product Name** : TVB-3166  
**Cat. No.** : PC-62734  
**CAS No.** : 1533438-83-3  
**Molecular Formula** : C<sub>24</sub>H<sub>24</sub>N<sub>4</sub>O  
**Molecular Weight** : 384.483  
**Target** : Fatty Acid Synthase  
**Solubility** : 10 mM in DMSO



## Biological Activity

TVB-3166 is an orally-available, reversible, potent, and selective fatty acid synthase (**FASN**) inhibitor with biochemical IC<sub>50</sub> of 42 nM.

TVB-3166 inhibits cellular palmitate synthesis with IC<sub>50</sub> 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!**

E-mail: tech@probechem.com