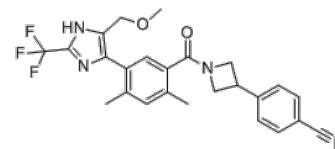


**Product Name** : TVB3664  
**Cat. No.** : PC-72780  
**CAS No.** : 2097262-58-1  
**Molecular Formula** : C<sub>25</sub>H<sub>23</sub>F<sub>3</sub>N<sub>4</sub>O<sub>2</sub>  
**Molecular Weight** : 468.47  
**Target** : Fatty Acid Synthase  
**Solubility** : 10 mM in DMSO



## Biological Activity

TVB3664 is a potent, selective and highly bioavailable **fatty acid synthase (FASN)** inhibitor with IC<sub>50</sub> of 18 nM and 12 nM for human and mouse cell palmitate synthesis, respectively.

TVB-3664 significantly reduces tubulin palmitoylation and mRNA expression.

Anti-tumor effect of TVB-3664 was associated with a significant decrease in a pool of adenine nucleotides and alterations in lipid composition including a significant reduction in fatty acids and phospholipids and an increase in lactosylceramide and sphingomyelin in PDXs sensitive to FASN inhibition.

## References

Zaytseva YY, et al. *Oncotarget*. 2018 May 15;9(37):24787-24800.

Heuer TS, et al. *EBioMedicine*. 2017 Feb;16:51-62.

Wang H, et al. *Hepatology*. 2022 Jan 25.

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

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