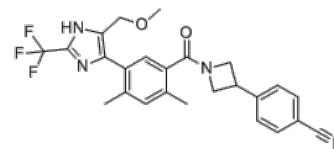


Product Name : TVB3664
Cat. No. : PC-72780
CAS No. : 2097262-58-1
Molecular Formula : C₂₅H₂₃F₃N₄O₂
Molecular Weight : 468.47
Target : Fatty Acid Synthase
Solubility : 10 mM in DMSO



Biological Activity

TVB3664 is a potent, selective and highly bioavailable **fatty acid synthase (FASN)** inhibitor with IC₅₀ 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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