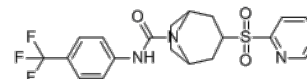

Product Name	: ELOVL6 inhibitor Compound B
Cat. No.	: PC-20306
CAS No.	: 1135000-36-0
Molecular Formula	: C ₂₀ H ₂₀ F ₃ N ₃ O ₃ S
Molecular Weight	: 439.45
Target	: Other Targets
Solubility	: 10 mM in DMSO



Biological Activity

ELOVL6 inhibitor Compound B is a potent and selective **ELOVL6** inhibitor with IC₅₀ of 85 and 38 nM for human and mouse ELOVL6, respectively.

Compound B is about 10-fold greater than that of Compound A.

Compound B displays >60-fold selectivity over the other ELOVL family enzymes (ELOVL1, 2, 3, and 5).

Compound B shows the mode-of-action of an ELOVL6 inhibitor in a non-competitive manner for malonyl-CoA and in an un-competitive manner for palmitoyl CoA.

Compound B effectively inhibits ELOVL6 activity in the liver.

Compound B shows significant reduction in hepatic fatty acid composition in model animals, diet-induced obesity (DIO) and KKAY mice.

References

Ken Shimamura, et al. *Eur J Pharmacol.* 2010 Mar 25;630(1-3):34-41.

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

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