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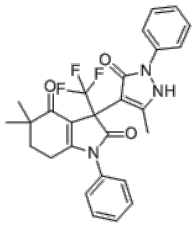
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	ELOVL6 inhibitor Compound A
Cat. No.	:	PC-20304
CAS No.	:	1185736-98-4
Molecular Formula	:	$C_{27}H_{24}F_3N_3O_3$
Molecular Weight	:	495.50
Target	:	Other Targets
Solubility	:	10 mM in DMSO



Biological Activity

ELOVL6 inhibitor Compound-A is a potent, selective inhibitor of elongase of long-chain fatty acids family 6 (**ELOVL6**) with IC50 of 169 and 350 nM for human and mouse ELOVL6, respectively.
Compound-A displays >30-fold selectivity over recombinant human ELOVL family enzymes (ELOVL1, -2, -3, and -5, IC50 values >5-10 uM), also shows negligible or very weak inhibitory effects on rat microsomal SCD, human ACC1 and -2, and human FAS.
Compound-A inhibits ELOVL6 in a noncompetitive manner for malonyl-CoA (Ki=994 nM) and in an uncompetitive manner for palmitoyl-CoA.
Compound-A effectively reduced the elongation index of fatty acids of hepatocytes.
Compound-A (100 mg/kg, oral) significantly reduced the elongation index of the total fatty acids of the liver in mice.

References

Ken Shimamura, et al. ***J Pharmacol Exp Ther***. 2009 Jul;330(1):249-56.

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