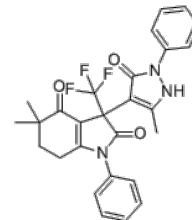


Product Name : ELOVL6 inhibitor Compound A
Cat. No. : PC-20304
CAS No. : 1185736-98-4
Molecular Formula : C₂₇H₂₄F₃N₃O₃
Molecular Weight : 495.50
Target : Other Targets
Solubility : 10 mM in DMSO



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 μM), 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 (K_i=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.

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

E-mail: tech@probechem.com