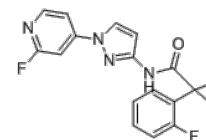


Product Name : ELOVL1-IN-1
Cat. No. : PC-38655
CAS No. : 2227482-41-7
Molecular Formula : C₁₈H₁₄F₂N₄O
Molecular Weight : 340.334
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

ELOVL1-IN-1 is a highly potent, selective, CNS-penetrant inhibitor of elongation of very long chain fatty acid 1 enzyme (**ELOVL1**) with IC₅₀ of 13 nM (C26:0 VLCFA inhibition in HEK cell).

ELOVL1-IN-1 selectively inhibits ELOVL1, reducing C26:0 VLCFA synthesis in ALD patient fibroblasts, lymphocytes, and microglia.

ELOVL1-IN-1 reduced C26:0 very long chain fatty acid (VLCFA) concentrations to near-wild-type levels in blood and up to 65% in the brain, a disease-relevant tissue in mouse models of adrenoleukodystrophy (ALD).

References

Jon H Come, et al. *J Med Chem.* 2021 Dec 23;64(24):17753-17776.

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

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