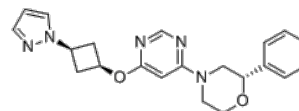


Product Name : ELOVL1-IN-22
Cat. No. : PC-72515
CAS No. : 2761063-99-2
Molecular Formula : C₂₁H₂₃N₅O₂
Molecular Weight : 377.448
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

ELOVL1-IN-22 is a potent, selective, CNS-penetrant, orally bioavailable inhibitor of elongation of very long chain fatty acid 1 (**ELOVL1**) enzyme, reduces C26:0 VLCFA synthesis in HEK293 with EC₅₀ of 0.4 nM.

ELOVL1-IN-22 reduced C26:0 VLCFA synthesis in ALD patient fibroblasts and lymphocytes in vitro.

ELOVL1-IN-22 reduced C26:0 lysophosphatidyl choline (LPC), a subtype of VLCFA, in the blood of ATP binding cassette transporter D1 (ABCD1) KO mice, a murine model of ALD to near wild-type levels.

ELOVL1-IN-22 is a useful tool for exploring therapeutic approaches to the treatment of adrenoleukodystrophy (ALD).

References

Michael J Boyd, et al. *J Med Chem.* 2021 Dec 23;64(24):17777-17794.

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

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