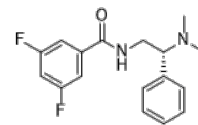


Product Name : (R)-HTS-3
Cat. No. : PC-38905
CAS No. : 2771208-83-2
Molecular Formula : C₁₇H₁₈F₂N₂O
Molecular Weight : 304.34
Target : Other Targets
Solubility : 10 mM in DMSO



CAS: 2771208-83-2

Biological Activity

(R)-HTS-3 is a small-molecule inhibitor of lysophosphatidylcholine acyltransferase 3 (**LPCAT3**) with IC₅₀ of 0.09 μM, an integral membrane acyltransferase in the Lands cycle responsible for generating C20:4 phospholipids.

(R)-HTS-3 inhibits LPCAT3 in a biphasic manner, possibly reflecting differential activity at each subunit of the LPCAT3 homodimer.

(R)-HTS-3 treatment cause rapid rewiring of polyunsaturated phospholipids in human cells.

LPCAT3 has been implicated in key biological processes such as intestinal lipid absorption, lipoprotein assembly, and ferroptosis.

References

Alex Reed, et al. *ACS Chem Biol.* 2022 Jun 17;17(6):1607-1618.

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

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