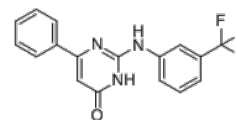


Product Name : GAC0001E5
Cat. No. : PC-49867
CAS No. : 927969-67-3
Molecular Formula : C₁₇H₁₂F₃N₃O
Molecular Weight : 331.30
Target : Liver X Receptor (LXR)
Solubility : 10 mM in DMSO



Biological Activity

GAC0001E5 (LXR ligand 1E5) is a small molecule **liver X receptor (LXR)** inverse agonist and a potent inhibitor of pancreatic and breast cancer cells (MDA-MB-231, IC₅₀=7.74 μM).

GAC0001E5 significantly decreased LXRβ transcription and translation in MCF7-TamR and MDA-MB-231 cells.

GAC0001E5 induces oxidative stress in breast cancer cells, disrupting glutaminolysis, downregulates the intracellular glutamate levels.

Combination treatment of 1E5 with GLS inhibitor BPTES synergistically decreases glutaminolysis and growth of PDAC cells.

References

Srivastava S, et al. *Int J Mol Sci.* 2020 Dec 17;21(24):9622.

Premaratne A, et al. *Biomolecules.* 2023 Feb 10;13(2):345.

araboga H, et al. *ACS Chem Biol.* 2020;15:2916–2928.

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

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