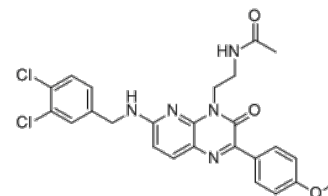


Product Name : CVT-11127
Cat. No. : PC-38545
CAS No. : 1018674-83-3
Molecular Formula : C₂₅H₂₃Cl₂N₅O₃
Molecular Weight : 512.391
Target : Stearoyl-CoA Desaturase (SCD)
Solubility : 10 mM in DMSO



Biological Activity

CVT-11127 (FMK13918, GS-456332) is a specific small molecule **stearoyl-CoA desaturase** (SCD) inhibitor with IC₅₀ of 210 and 410 nM against rat microsomal SCD and HepG2 SCD, respectively.

CVT-11127 is selective for Δ⁹ desaturases, does not inhibit the activity of rat microsomal Δ⁵ and Δ⁶ desaturases at 30 μM. CVT-11127 reduces cell proliferation in human lung and breast cancer cells, decreases de novo lipid synthesis from glucose. CVT-11127 impairs the ligand-induced phosphorylation of epidermal growth factor (EGF) receptor, causing the inactivation of its downstream targets Akt, ERK and mammalian target of rapamycin in H460 lung cancer cells.

References

Koltun DO, et al. *Bioorg Med Chem Lett*. 2009;19:2048–52.

Natalia Scaglia, et al. *PLoS One*. 2009 Aug 27;4(8):e6812.

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

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