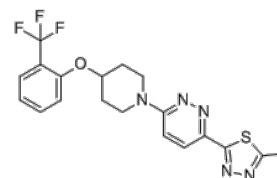


Product Name : MF-438
Cat. No. : PC-20379
CAS No. : 921605-87-0
Molecular Formula : C₁₉H₁₈F₃N₅OS
Molecular Weight : 421.44
Target : Stearoyl-CoA Desaturase (SCD)
Solubility : 10 mM in DMSO



Biological Activity

MF-438 (MF438) is a potent and orally bioavailable stearoyl-CoA desaturase 1 (**SCD1**) inhibitor with IC₅₀ of 2.3 nM. Co-treatment with cisplatin and the SCD1 inhibitor MF-438 reverts upregulation of lung cancer CSCs markers, strongly synergizes in the inhibition of 3D spheroids formation and induces CSCs apoptosis. MF-438 exhibits good pharmacokinetics and metabolic stability. MF-438 reverts BRAF and MEK inhibition-induced selection of cancer stem cells in BRAF-mutated melanoma.

References

- Léger S, et al. *Bioorg Med Chem Lett*. 2010 Jan 15;20(2):499-502.
Pisanu ME, et al. *Cancer Lett*. 2017 Oct 10;406:93-104.
Pisanu ME, et al. *J Exp Clin Cancer Res*. 2018 Dec 17;37(1):318.

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

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