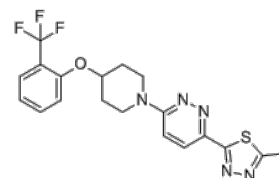


**Product Name** : MF-438  
**Cat. No.** : PC-20379  
**CAS No.** : 921605-87-0  
**Molecular Formula** : C<sub>19</sub>H<sub>18</sub>F<sub>3</sub>N<sub>5</sub>OS  
**Molecular Weight** : 421.44  
**Target** : Stearoyl-CoA Desaturase (SCD)  
**Solubility** : 10 mM in DMSO



## Biological Activity

MF-438 (MF438) is a potent and orally bioavailable stearoyl-CoA desaturase 1 (SCD1) inhibitor with IC<sub>50</sub> 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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