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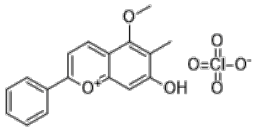
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Dracorhodin perchlorate
Cat. No.	:	PC-25362
CAS No.	:	125536-25-6
Molecular Formula	:	$C_{17}H_{15}ClO_7$
Molecular Weight	:	366.75
Target	:	Other Targets
Solubility	:	10 mM in DMSO



Biological Activity

Dracorhodin perchlorate is a potent CD147 inhibitor that induces autophagy-dependent degradation, triggers PUFA/MUFA balance-mediated ferroptosis.
Dracorhodin perchlorate significantly inhibits cell proliferation and enhances sensitivity to gemcitabine in pancreatic cancer cells.
CD147 inhibition upregulates acyl-CoA synthetase long-chain family member 4 (ACSL4) expression through H3K9 lactylation and suppresses the sterol regulatory element-binding protein 1 (SREBP1)/stearoyl-CoA desaturase-1 (SCD1) signaling pathway, collectively disrupting the balance of polyunsaturated and monounsaturated fatty acids, ultimately triggering ferroptosis.
The combination of Dracorhodin and gemcitabine demonstrates remarkable synergistic anti-tumor effects in orthotopic xenograft models, spontaneous KPC mouse models, and patient-derived organoid (PDO) and xenograft (PDX) models.

References

Li J, et al. Cell Rep Med. 2025 Aug 19;6(8):102292.

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