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FINO2 Compound for Ferroptosis

FINO2 is a ferroptosis-inducing peroxide compound that indirectly inhibits glutathione peroxidase 4 (GPX4) and oxidizes iron.

FINO2 (1,2-dioxolane) was identified as a lead compound from a screen of organic peroxides. FINO2 does not induce apoptosis, but instead initiates ferroptosis, an iron-dependent, oxidative cell death pathway. Few compounds are known to induce primarily ferroptosis. In contrast to the perceived instability of peroxides, FINO2 was found to be thermally stable to at least 150 °C. FINO2 was more potent in cancer cells than nonmalignant cells of the same type.

References

1. Abrams et al. , <https://pmc.ncbi.nlm.nih.gov/articles/PMC5507670/>

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Category

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