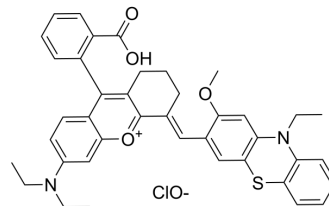


Mito-Rh-S

Cat. No.:	HY-D2312
Molecular Formula:	C ₄₀ H ₃₉ ClN ₂ O ₅ S
Molecular Weight:	695.27
Target:	Fluorescent Dye; Ferroptosis
Pathway:	Others; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Mito-Rh-S is a ratiometric near-infrared (NIR) fluorescent probe that detects the fluctuation of mitochondrial HClO levels during ferroptosis in hepatocellular carcinoma (HCC) ^[1] .
In Vitro	Mito-Rh-S has an ultrafast response rate (2s) and large emission shift (115 nm). Mito-Rh-S has a high signal-to-noise ratio ^[1] . The cell experiments of Mito-Rh-S demonstrated that Fe ²⁺ - and Erastin-induced ferroptosis in HepG2 cells resulted in elevated levels of mitochondrial HClO ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Bo Zhao, et al. Ratiometric Near-Infrared Fluorescent Probe Monitors Ferroptosis in HCC Cells by Imaging HClO in Mitochondria. *Anal Chem.* 2024 Apr 16;96(15):5992-6000.

Caution: Product has not been fully validated for medical applications. For research use only.

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