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Zuschläge

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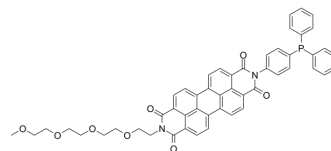
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LPd peroxida probe

Cat. No.:	HY-D1412
CAS No.:	1448846-35-2
Molecular Formula:	C ₅₁ H ₄₁ N ₂ O ₈ P
Molecular Weight:	840.85
Target:	Ferroptosis
Pathway:	Apoptosis
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



BIOLOGICAL ACTIVITY

Description	LPd peroxida probe, a marker of ferroptosis, is a useful fluorescent probe for investigating the roles of lipid peroxidation in a variety of cell pathophysiology. LPd peroxida probe reduces lipid hydroperoxides to lipid alcohols and is used for imaging lipid hydroperoxides in living cells ^{[1][2][3]} .
In Vitro	<p>Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs).</p> <ol style="list-style-type: none"> 1. Cells in the glass bottom dish are treated with 50 μM of H₂O₂ in RPMI 1640 for 2 h at 37 °C. After removing H₂O₂, cells are washed with Hank's balanced salt solution (HBSS) three times. 2. Cells are then treated with 10 μM of LPd peroxida probe in HBSS for 30 min at 37 °C. After removing LPd peroxida probe, cells are washed with HBSS three times. 3. Fluorescence images are obtained using a BZ-8000 fluorescence microscope from 3 separate dishes for each treatment^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Kazuo Tomita, et al. MiR-7-5p Is Involved in Ferroptosis Signaling and Radioresistance Thru the Generation of ROS in Radioresistant HeLa and SAS Cell Lines. *Int J Mol Sci.* 2021 Aug 2;22(15):8300.
- [2]. Elizabeth M Kenny, et al. Ferroptosis Contributes to Neuronal Death and Functional Outcome After Traumatic Brain Injury. *Crit Care Med.* 2019 Mar;47(3):410-418.
- [3]. Kazunori Yamanaka, et al. A novel fluorescent probe with high sensitivity and selective detection of lipid hydroperoxides in cells. *RSC Advances*, 2012, 2, 7894–7900.

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

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