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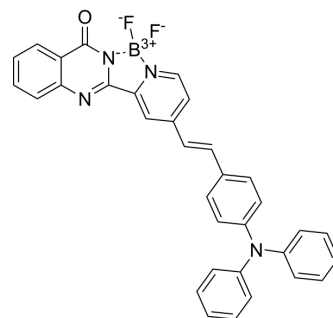
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BODIQPy-TPA

Cat. No.:	HY-163286
CAS No.:	2738333-02-1
Molecular Formula:	C ₃₃ H ₂₃ BF ₂ N ₄ O
Molecular Weight:	540.37
Target:	Fluorescent Dye; Ferroptosis
Pathway:	Others; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	BODIQPy-TPA is a lipophilic probes, which induces ferroptosis in B16 and HepG2 cells upon light irradiation through lipid peroxidation. BODIQPy-TPA reveals a maximum absorption wavelength of 488 nm and a maximum emission wavelength above 640 nm ^[1] .																
In Vitro	BODIQPy-TPA (5 μM) ferrostatin-dependently reveals photocytotoxicity with IC₅₀ of 0.51 μM in B16 cells under blue LED irradiation, downregulates expression of ferritin heavy polypeptide 1 (FTH1) ^[1]. BODIQPy-TPA (5 μM) increases levels of triacylglycerol (TG) and downregulates phosphatidylcholine (PC) with light irradiation^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay^[1] <table border="1"> <tr> <td>Cell Line:</td><td>B16</td></tr> <tr> <td>Concentration:</td><td>0-50 μM</td></tr> <tr> <td>Incubation Time:</td><td>48 h</td></tr> <tr> <td>Result:</td><td>Inhibited B16 cells viability, decreased the cytotoxicity with presence of ferrostatin.</td></tr> </table> Western Blot Analysis^[1] <table border="1"> <tr> <td>Cell Line:</td><td>B16</td></tr> <tr> <td>Concentration:</td><td>5 μM</td></tr> <tr> <td>Incubation Time:</td><td>48 h</td></tr> <tr> <td>Result:</td><td>Decreased levels of FTH1.</td></tr> </table>	Cell Line:	B16	Concentration:	0-50 μM	Incubation Time:	48 h	Result:	Inhibited B16 cells viability, decreased the cytotoxicity with presence of ferrostatin.	Cell Line:	B16	Concentration:	5 μM	Incubation Time:	48 h	Result:	Decreased levels of FTH1.
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REFERENCES

[1]. Xing Z, et al., Endoplasmic Reticulum-Targeting Quinazolinone-Based Lipophilic Probe for Specific Photoinduced Ferroptosis and Its Induced Lipid Dynamic Regulation. J Med Chem. 2024 Feb 8;67(3):1900-1913.

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

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