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Diagnostik & molekulare Diagnostik



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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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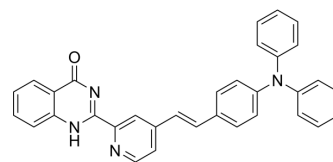
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QPy-TPA

Cat. No.:	HY-163287
CAS No.:	2738332-94-8
Molecular Formula:	C ₃₃ H ₂₄ N ₄ O
Molecular Weight:	492.57
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	QPy-TPA is a lipophilic probe, which induces non-ferroptotic cell death and lipid dynamic regulation in B16 and HepG2 cells upon light irradiation. QPy-TPA reveals a maximum absorption wavelength of 400 nm and a maximum emission wavelength of 590 nm ^[1] .								
In Vitro	QPy-TPA (5 μM) exhibits photocytotoxicity in cells B16 and HepG2, while QPy-TPA (50 μM) reveals a survival rate >50% without light irradiation^[1]. QPy-TPA upregulates oxidized lipids upon light irradiation, especially PCs and PEs^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cytotoxicity Assay^[1] <table border="1"> <tr> <td>Cell Line:</td><td>B16, HepG2</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>Exhibited survival rate >50% without light irradiation, decreased cell viabilities in B16 and HepG2 upon light irradiation, which is irreversible by Fer-1.</td></tr> </table>	Cell Line:	B16, HepG2	Concentration:	0-50 μM	Incubation Time:	48 h	Result:	Exhibited survival rate >50% without light irradiation, decreased cell viabilities in B16 and HepG2 upon light irradiation, which is irreversible by Fer-1.
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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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