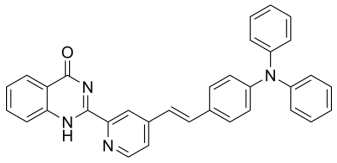
QPy-TPA

Cat. No.:	HY-163287
CAS No.:	2738332-94-8
Molecular Formula:	$C_{33}H_{24}N_4O$
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 lipopjilc probes, which induces non-ferroptotic cell death and lipid dynamic regularion 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]

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.

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.

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