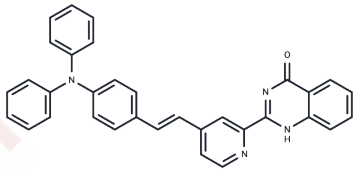
Data Sheet (Cat.No.T87287)

TargetMol

QPy-TPA

Chemical Properties



CAS No. : 2738332-94-8

Formula: C33H24N4O

Molecular Weight: 492.57

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	QPy-TPA is a lipophilic probe that induces non-ferroptotic cell death and regulates lipid dynamics in B16 and HepG2 cells upon light irradiation, with a maximum absorption wavelength of 400 nm and a maximum emission wavelength of 590 nm [1].
Targets(IC50)	Others
In vitro	QPy-TPA (5 μM) demonstrates phototoxicity in B16 and HepG2 cells, while QPy-TPA (50 μM) maintains a survival rate of over 50% in the absence of light exposure [1]. Under illumination, QPy-TPA increases oxidative lipids, particularly PC and PE [1]. Cell Cytotoxicity Assay [1] Cell Line: B16, HepG2 Concentration: 0-50 μM Incubation Time: 48 h Result: Showed a survival rate of over 50% without light irradiation and reduced cell viabilities in B16 and HepG2 with light irradiation, an effect not reversible by Fer-1.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0302 mL	10.1508 mL	20.3017 mL
5 mM	0.406 mL	2.0302 mL	4.0603 mL
10 mM	0.203 mL	1.0151 mL	2.0302 mL
50 mM	0.0406 mL	0.203 mL	0.406 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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