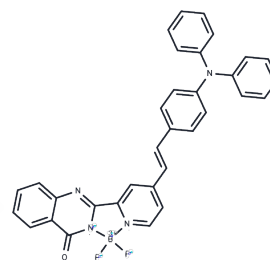


## BODIQPy-TPA

## Chemical Properties

CAS No. :	2738333-02-1
Formula:	C <sub>33</sub> H <sub>23</sub> BF <sub>2</sub> N <sub>4</sub> O
Molecular Weight:	540.37
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	BODIQPy-TPA is a lipophilic probe that induces ferroptosis in B16 and HepG2 cells upon light irradiation through lipid peroxidation. It exhibits a maximum absorption wavelength of 488 nm and a maximum emission wavelength above 640 nm [1].
Targets(IC50)	Others, Ferroptosis
In vitro	BODIQPy-TPA (5 μM) exhibits phototoxic effects on B16 cells under blue LED light exposure with an IC <sub>50</sub> of 0.51 μM, demonstrating ferrostatin dependency and reducing ferritin heavy polypeptide 1 (FTH1) expression [1]. Upon light exposure, it also increases triglyceride (TG) levels and decreases phosphatidylcholine (PC) levels [1]. In a cell viability assay, BODIQPy-TPA inhibited B16 cell viability at concentrations ranging from 0-50 μM after 48 hours, with decreased cytotoxicity in the presence of ferrostatin [1]. Western blot analysis showed decreased FTH1 levels in B16 cells at a concentration of 5 μM after 48 hours [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8506 mL	9.2529 mL	18.5058 mL
5 mM	0.3701 mL	1.8506 mL	3.7012 mL
10 mM	0.1851 mL	0.9253 mL	1.8506 mL
50 mM	0.037 mL	0.1851 mL	0.3701 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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