

TPE-PY

Chemical Properties

CAS No. : 3032077-04-3

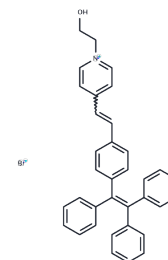
Formula: C₃₅H₃₀BrNO

Molecular Weight: 560.523

Keep away from direct sunlight

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	TPE-PY is a fluorescent dye designed for mitochondria, characterized by its cationic and lipophilic properties, enabling it to specifically target mitochondria. It operates via an aggregation-induced emission (AIE) mechanism by restricting intramolecular rotation (RIR), thereby enhancing fluorescence in the aggregated state. TPE-PY is primarily utilized in bioimaging, particularly for specific staining of mitochondria in live cells, assisting in the observation of mitochondrial location, morphology, and quantity.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7841 mL	8.9203 mL	17.8406 mL
5 mM	0.3568 mL	1.7841 mL	3.5681 mL
10 mM	0.1784 mL	0.892 mL	1.7841 mL
50 mM	0.0357 mL	0.1784 mL	0.3568 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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Tel: 781-999-4286

E_mail: info@targetmol.com

Address: 34 Washington Street, Wellesley Hills, MA 02481