# MitoPQ

®

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Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway:	HY-130278 1821370-28-8 C <sub>39</sub> H <sub>46</sub> I <sub>3</sub> N <sub>2</sub> P 954.48 ROS Kinase Protein Tyrosine Kinase/RTK	
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

## SOLVENT & SOLUBILITY

	DMSO : 33.33 mg/mL	DMSO : 33.33 mg/mL (34.92 mM; Need ultrasonic)					
		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	1.0477 mL	5.2385 mL	10.4769 mL		
		5 mM	0.2095 mL	1.0477 mL	2.0954 mL		
		10 mM	0.1048 mL	0.5238 mL	1.0477 mL		
	Please refer to the so	lubility information to select the app	propriate solvent.				

Description	MitoPQ is a mitochondria-targeted redox cycler. MitoPQ produces superoxide by redox cycling at the flavin site of complex I, selectively increasing superoxide production within mitochondria. MitoPQ can be used in antioxidant study <sup>[1]</sup> .			
In Vitro	MitoPQ (5 μM, 0.5 s-20 min) increases MitoSOX fluorescence in dose- and time-dependently manner in C2C12 myoblasts <sup>[1]</sup> . MitoPQ (1-10 μM, 6 h) increases MnSOD expression at the dose of 1-5 μM and decreases MnSOD expression at the dose of 10 μM in C2C12 myoblasts <sup>[1]</sup> . MitoPQ (1-10 μM, 24 h) increased HCT-116 cell death <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

### CUSTOMER VALIDATION

- Nano Today. 2023 Jun.
- Redox Biol. 2022 Oct 11;57:102507.

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#### REFERENCES

[1]. Robb EL, et al. Selective superoxide generation within mitochondria by the targeted redox cycler MitoParaquat. Free Radic Biol Med. 2015 Dec;89:883-94.

#### Caution: Product has not been fully validated for medical applications. For research use only.

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