

## Mito-TEMPO, Mitochondria targeted antioxidant

Catalog	Unit
TBI4100-5MG	5 mg
TBI4100-25MG	25 mg

### Product Details

**Formal Name:** (2-(2,2,6,6-Tetramethylpiperidin-1-oxyl-4-ylamino)-2-oxoethyl)triphenylphosphonium chloride

**Molecular Formula:** C<sub>29</sub>H<sub>35</sub>ClN<sub>2</sub>O<sub>2</sub>P

**Formula Weight:** 510.00

**CAS Number:** 1334850-99-5

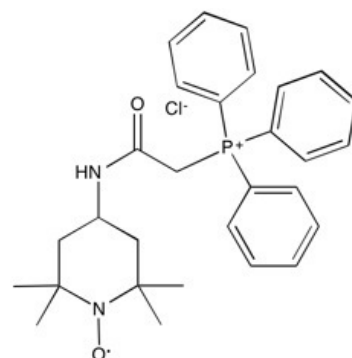
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 25 mg/ml), in Water (up to 40 mg/ml) or in Ethanol (up to 40 mg/ml).

**Storage:** -20°C

**Stability:** ≥ 2 years.



### Applications

Mitochondria targeted antioxidant

### Functions

Mitochondria-targeted antioxidant. Partially prevents mitochondrial permeability transition pore opening, necrosis and mitochondrial apoptosis after ATP depletion recovery. Resolves mitochondrial oxidative stress and rescues coronary collateral growth in Zucker obese fatty rats. Protects mitochondrial membrane potential and attenuates reperfusion-induced ROS production in a mouse ventricular myocyte model. Abrogates the induction of senescence in a human vascular smooth muscle cell model.

### Application Procedures

First dissolved in DMSO (up to 25 mg/ml), in Water (up to 40 mg/ml) or in Ethanol (up to 40 mg/ml), then diluted to aqueous buffer.

**For research use only.**